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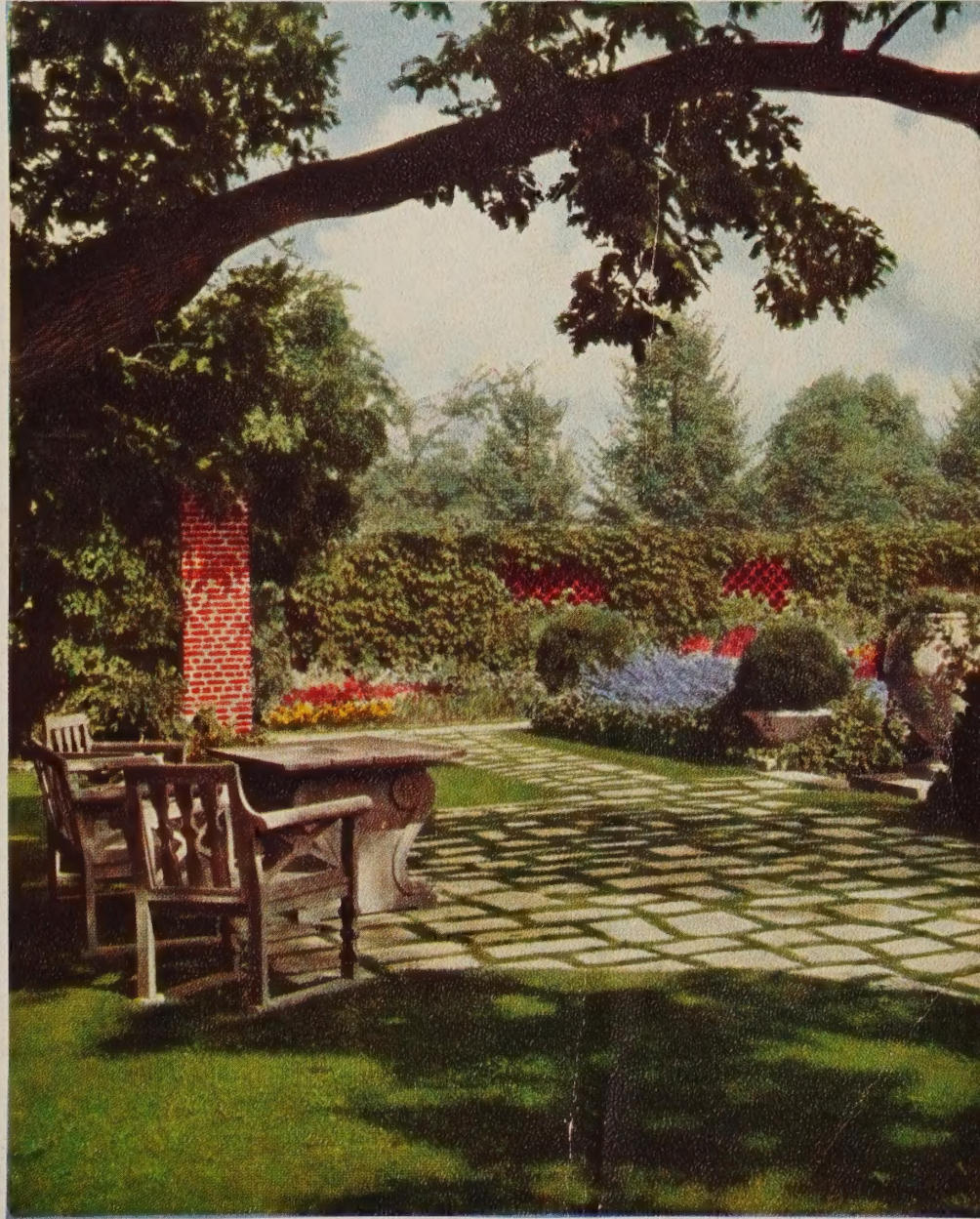


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Scott's SEEDS

MAIL and TELEPHONE ORDERS
WE DELIVER, See Page 143
TELEPHONE • ATLantic 2022



Everything for Farm · Garden and Poultry

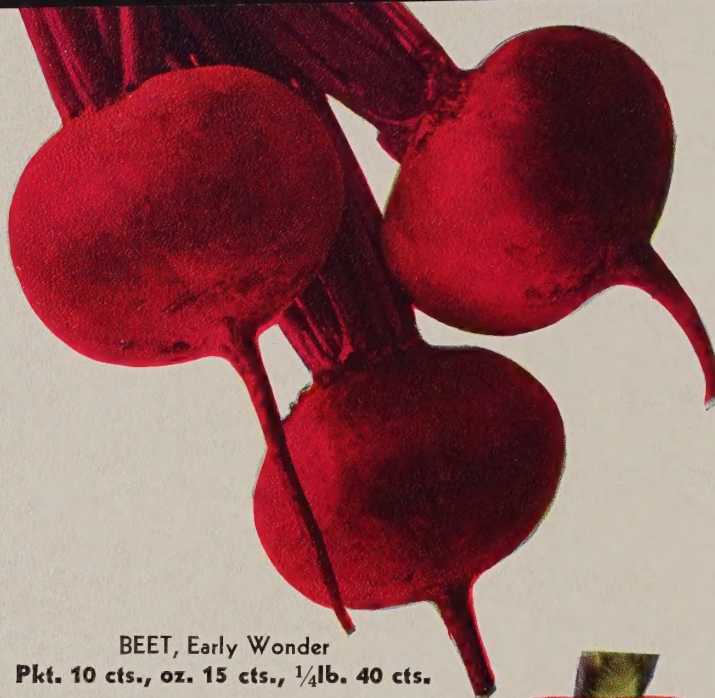
ESTABLISHED 1876 **The I. W. SCOTT COMPANY** 1941

500 LIBERTY AVE. • 113 DIAMOND ST. • PITTSBURGH, PA.



BEANS

Sure-Crop Stringless Wax, Tendergreen
 $\frac{1}{2}$ pt. 20 cts., pt. 35 cts., qt. 60 cts.



BEET, Early Wonder

Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts.

CARROT, Denver's Half-Long
 Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts.



RADISH

Early Scarlet Globe
 Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts.



CORN, Golden Giant
 $\frac{1}{2}$ pt. 20 cts., pt. 30 cts.,
 qt. 50 cts.



CUCUMBER, Davis Perfect. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 45 cts.

Be Proud of Your Lawn

SCOTT'S PURITY LAWN GRASS SEED

Continuous experimenting and testing keep this mixture producing lawns which are as near perfection as can be found anywhere. We doubt that there is a lawn grass mixture of equal quality offered at anywhere near the moderate prices quoted below. To begin with, our formula is jealously guarded by including only the highest grades of re-cleaned seeds procurable and then they must prove up for quick germination and freedom from weeds and unwanted grasses.

For a lustrous, springy turf of an even tone of rich green from early spring until late fall, Scott's Purity will "deliver the goods," and the long roots of these grasses will keep the lawn in place during winter.

Sow at the rate of 1 pound to each 250 square feet or 150 pounds per acre. A measured bushel will weigh about 27 pounds.

1/2 lb.	\$0 30
Lb.	50
2 lbs.	95
5 lbs.	2 25
10 lbs.	4 25
25 lbs.	10 00
50 lbs.	19 00
100 lbs.	36 00



SCOTT'S LAWN-GRO FERTILIZER



Just as our farm customers call for special fertilizers for each crop, here's a fertilizer for just one purpose—to produce the best possible lawn. It contains both organic and inorganic materials, producing a steady supply of food to the plants for a long time.

Use Scott's Lawn-Gro on a Scott's Purity Lawn and the result is pleasing satisfaction the year round.

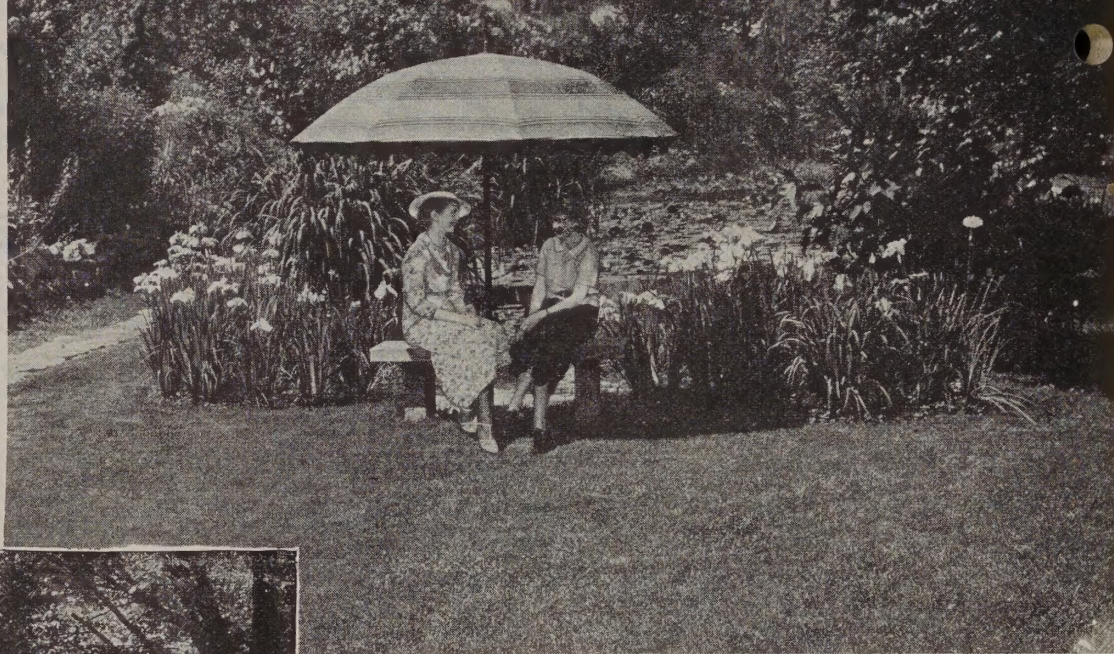
5-lb. bag	\$0 45	50-lb. bag	\$2 50
10-lb. bag	85	100-lb. bag	4 50
25-lb. bag	1 50	500 lbs.	21 00



"LAWNS—
HOW TO MAKE AND
MAINTAIN THEM"

A carefully prepared leaflet free to
those who ask for it

**BEAUTIFUL
LAWNS**
in
Western Pennsylvania
ARE MADE
WITH
**SCOTT'S
LAWN SEED**



SCOTT'S "SUPERFINE" LAWN SEED

For a lawn of extra-fine grasses we recommend this mixture, which is our Scott's Purity to which has been added a proportion of an expensive Bent Grass Seed.

The Bent Grass provides a fine silky appearance and stands hard wear as well as the heat and drought of summer and the frost action of winter.

One pound will sow 400 square feet or 100 pounds an acre. A measured bushel weighs about 32 pounds.

1/2 lb. 35 cts., 1 lb. 65 cts., 2 lbs. \$1.25, 5 lbs. \$3, 10 lbs. \$5.50, 25 lbs. \$12.50, 50 lbs. \$23.50, 100 lbs. \$45.

SCOTT'S "EVERGREEN" LAWN GRASS MIXTURE

This mixture has been prepared for those requiring a moderate-priced lawn grass seed. We believe it is unequalled at the price.

1/2 lb. 25 cts., 1 lb. 40 cts., 2 lbs. 75 cts., 5 lbs. \$1.75, 10 lbs. \$3.25, 25 lbs. \$7.75, 50 lbs. \$15, 100 lbs. \$28.

SCOTT'S "SHADY" LAWN MIXTURE

There are only a few good grasses thriving in shade so we have put them all together here. We believe you will get surprisingly good results from this mixture.

Use same quantities as Scott's Purity.

1/2 lb. 35 cts., 1 lb. 65 cts., 2 lbs. \$1.25, 5 lbs. \$3, 10 lbs. \$5.50, 25 lbs. \$13, 50 lbs. \$25, 100 lbs. \$48.

SCOTT'S "FAIRWAY" MIXTURE

Down the fairway the turf must be pleasing to the eye and tough enough to stand close clipping and considerable wear and tear. Our mixture answers those requirements.

Fairways do best when seeded liberally.

5 lbs. \$2.25, 10 lbs. \$4.25, 25 lbs. \$10, 50 lbs. \$19, 100 lbs. \$36.

SCOTT'S "TERRACE" LAWN MIXTURE

Grasses with strong, well-developed root-systems quickly established, have been selected for difficult terraces where this mixture has given unqualified satisfaction for several years.

1/2 lb. 30 cts., 1 lb. 50 cts., 2 lbs. 95 cts., 5 lbs. \$2.25, 10 lbs. \$4.25, 25 lbs. \$10, 50 lbs. \$19, 100 lbs. \$36.

SCOTT'S "ATHLETIC FIELD" MIXTURE

This calls for good appearance and the toughness of an elephant's hide. Our mixture produces a turf that is just that, standing the gouging of cleated shoes and the pounding of running feet. Seed liberally.

5 lbs. \$3, 10 lbs. \$5.50, 25 lbs. \$12.50, 50 lbs. \$23.50, 100 lbs. \$45.



We are prepared to furnish special Grass Mixtures. Prices will be quoted on receipt of specifications

SEPARATE VARIETIES OF GRASS SEEDS

All Recleaned and of Highest Quality

MIXED CREEPING BENT. A superior Grass for putting-greens on account of its dwarf growth and its narrow leaves. It will grow and make good turf in good or bad soils, and dry weather or heavy rains seem to have no serious effects. About forty pounds of seed are required for an acre. Lb. \$1.25, 5 lbs. \$5.75, 10 lbs. \$10, 25 lbs. \$22.50.

COOS COUNTY BENT or SEASIDE BENT (*Agrostis alba maritima*). A fine-leaved bright green Grass used principally on golf-courses for putting-greens. Its texture is fine and uniform, and under good cultural conditions, on soils of reasonable fertility, it will form a sod very quickly. It makes a very good growth in rather dense shade, and spreads with great rapidity. Lb. \$1.25, 5 lbs. \$5.75, 10 lbs. \$10, 25 lbs. \$22.50.

COLONIAL BENT (*Agrostis tenuis*). A tight, thick turf, permanent under close mowing. For putting-greens and fairway mixtures. Lb. \$1.25, 5 lbs. \$5.75, 10 lbs. \$10, 25 lbs. \$22.50.

ASTORIA BENT (*Agrostis tenuis; Astoriana*). An underground creeper making a deep, heavy sod of fine texture and color. Lb. \$1.25, 5 lbs. \$5.75, 10 lbs. \$10, 25 lbs. \$22.50.

RED-TOP (*Agrostis alba*). A valuable Grass for hay, pasture or lawn. About fifteen to twenty pounds of seed will be required for an acre. Lb. 40 cts., 10 lbs. \$3.50, 25 lbs. \$8.

KENTUCKY BLUE GRASS (*Poa pratensis*). Kentucky Blue Grass is most valuable for pastures and lawn planting. For lawns it is indispensable and, when well established, the lawn will last for years, as the Grass makes an extra-close fine-textured turf. The seed should be mixed with other Grasses that mature earlier, for Blue Grass is very slow in both germinating and maturing. Lb. 50 cts., 10 lbs. \$4.50, 25 lbs. \$10.

PERENNIAL RYE GRASS (*Lolium perenne*). A fine-leaved Grass, not as coarse as the ordinary variety and more resistant to cold. An excellent green on fairways or anywhere that a quick-growing sod is needed. An excellent nurse Grass for slow-germinating Grasses. Lb. 40 cts., 10 lbs. \$3.50, 25 lbs. \$8.

DOMESTIC RYE GRASS. A mixture of Italian and English Rye Grass grown in the United States. Quick-growing; often used for a temporary turf. Lb. 35 cts., 10 lbs. \$3, 25 lbs. \$6.25.

ITALIAN RYE GRASS (*Lolium italicum*). Makes a dense turf when sown thickly or mixed with other Grasses. It is most useful on medium moist soils and grows very rapidly into a bright green sod. Lb. 35 cts., 10 lbs. \$3, 25 lbs. \$6.75.

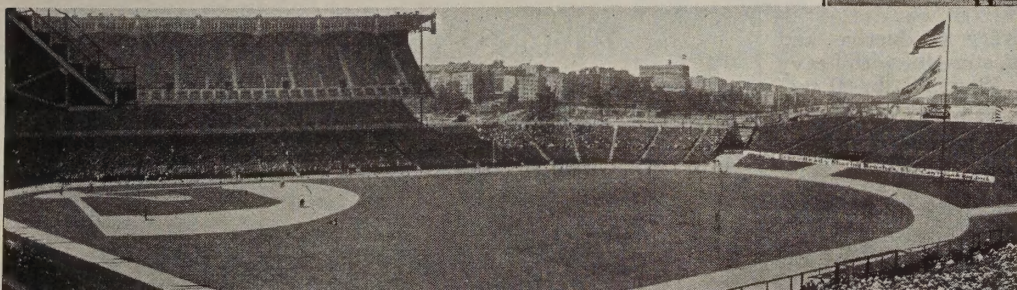
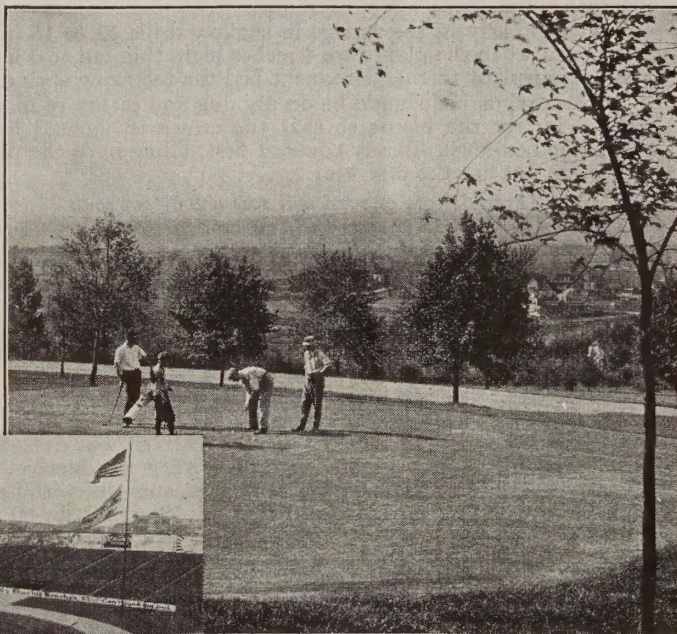
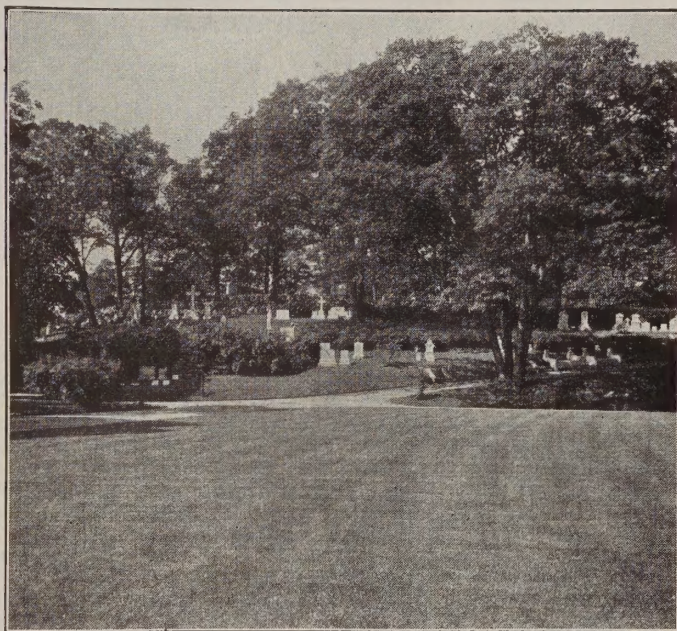
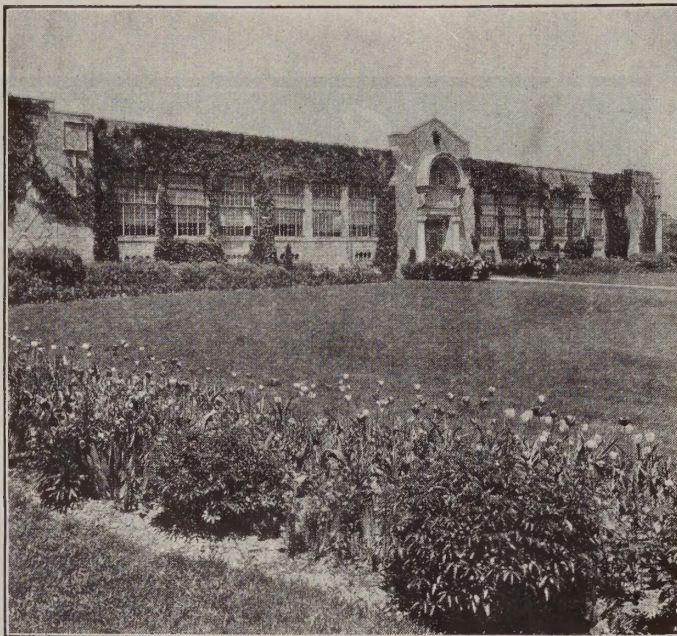
ROUGH-STALKED MEADOW GRASS (*Poa trivialis*). A thick-matting, stoloniferous species which makes a heavy turf and is well adapted to shady situations when sown with other Grasses. Prefers light moisture and does not do well in dry, exposed places. Lb. \$1, 5 lbs. \$4.50, 10 lbs. \$8.50, 25 lbs. \$20.

CHEWING'S FESCUE (*Festuca rubra fallax*). A fine, needle-like sod excellent for putting-greens and lawns. Lb. 90 cts., 5 lbs. \$4, 10 lbs. \$7.50, 25 lbs. \$17.50.

■ **TIMOTHY** (*Phleum pratense*). One of the most important hay Grasses, sometimes used to nurse lawns made on rough soil. Lb. 20 cts., 5 lbs. 80 cts., 10 lbs. \$1.25.

WHITE DUTCH CLOVER (*Trifolium repens*). Valuable for quick lawns and permanent pastures. $\frac{1}{4}$ lb. 30 cts., $\frac{1}{2}$ lb. 50 cts., lb. 95 cts., 5 lbs. \$4.50, 10 lbs. \$8.50.

Prices on larger quantities quoted on request. Above prices subject to market changes. For description of farm seeds, see pages 52 to 55.



Scott's Vegetable Seeds

Quality Always Our First Consideration



For more than 60 years we have been supplying the most critical market-gardeners with the best and purest strains of Vegetable Seeds. The steady increase of our trade during all these years, is the best evidence that our seeds give satisfaction.

The test of a seed is the crop it produces—not the price paid for it. It is always our endeavor to supply only the highest bred and most vigorous seeds it is possible to grow. Even the best of seed is none too good when growing conditions are unfavorable, but poor seed will not produce good results, no matter

how much care and help the crop receives. The old saying, "The best is the cheapest," applies with greater force to seeds than to any other commodity. So with us, we aim to supply the highest quality at a fair price; quality comes first.

All of our packet seeds, both vegetable and flower, are put up from exactly the same stocks that we use for pounds, pecks and bushels, so the small gardener can depend upon getting seeds as fresh and as choice in every way as those which the most critical market-gardeners demand.

★ WHEN IN DOUBT, ORDER THE STAR VARIETIES

ASPARAGUS

Equally good results may be secured by planting seed or roots; seed is cheaper but from one to two years' time is saved by starting with roots.

Sow seed early in the spring, in shallow drills 12 to 15 inches apart, and when the plants are 4 inches high, thin out to 3 inches apart; transplant to the permanent bed the following spring.

An Asparagus bed should be deeply dug and plenty of manure worked in; set the plants so that the crown is about 3 inches below the bed-level. Barely cover at first, filling in as the plants grow. Do not cut the first year.

*Three ounces of seed will sow a 100-foot row;
15 pounds will sow an acre*

Martha Washington Rust-Resistant. A new variety developed by the U. S. Department of Agriculture. It produces abundant crops of large, tender stalks and is practically immune from "rust" and other Asparagus diseases. Without doubt, the finest strain of Asparagus now available. Seed, pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.

Two-year-old roots, 50 cts. per doz., \$1.65 for 50, \$2.75 per 100, \$7 for 500, \$12 per 1,000.

Mary Washington. Plants vigorous, very productive and nearly rust-free. Shoots dark green, large, straight, with heavy purple overtone. Seed, pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$2.

Two-year-old roots, 50 cts. per doz., \$1.65 for 50, \$2.75 per 100, \$8 for 500, \$14 per 1,000.

BROCCOLI

A kind of hardy cauliflower which thrives best in moist fall weather. Grow like late cauliflower, sowing in May and transplant in June or early July.

An ounce of seed will produce 2,000 plants

True Italian Sprouting. A distinct variety with large, solid heads that stay green. Many sprouts develop from the leaf-axils after the heads are cut, and each terminates in a small head which is also edible. Pkt. 15 cts., oz. 50 cts., $\frac{1}{4}$ lb. \$1.50.

FRENCH ARTICHOKE

This highly prized salad can be grown in our climate, provided the plants are given light protection over winter. Start the seed indoors and give the same treatment as you would tomatoes, transplanting to the garden in May. The plants are perennial.

An ounce of seed will produce 500 plants

Large Green Globe. The best variety. Pkt. 15 cts., oz. 75 cts., $\frac{1}{4}$ lb. \$2.50, lb. \$8.

BRUSSELS SPROUTS

The "sprouts" are like miniature cabbages growing along the main stem. Takes the same culture as cabbage.

An ounce of seed will produce 2,000 plants

Half-Dwarf Improved. Pkt. 10 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1, lb. \$3.

BEANS

Everyone Can
Grow Beans

Dwarf Green-podded and Wax Beans

Although the pods of Wax Beans are considered more attractive than those of the green-podded sorts, there is no difference in quality, and personal choice, or market demand, must decide which to grow; they are both delicious and both yield bountiful returns from limited space. Home gardeners will want some of both types. As soon as the ground warms up, plant the Beans $1\frac{1}{2}$ to 2 inches deep and 2 to 3 inches apart; later plantings should be covered $2\frac{1}{2}$ to 3 inches deep. For a constant supply, plant every two weeks from May to August.

INOCULATE THIS
SEED WITH
FARMOGERM

A pint of seed will sow 100 feet of furrow; 1 to $1\frac{1}{2}$ bushels, depending on variety, will be required for an acre when the seed is planted in drills.

Dwarf Green-podded Beans

Asgrow Stringless Green-Pod. ★ Four to six days earlier than Full Measure. The pods are long, straight, round, meaty, entirely stringless, and of fine table quality. $\frac{1}{2}$ pt. 20 cts., pt. 30 cts., qt. 55 cts., pk. \$2.85, bus. \$9.60.

Asgrow Stringless Black Valentine. ★ A new, hardy, prolific Bean of the true Black Valentine type, wholly without strings. Quick-growing. $\frac{1}{2}$ pt. 20 cts., pt. 30 cts., qt. 55 cts., pk. \$2.85, bus. \$9.60.

Bountiful. ★ A splendid variety, well named, for it is extremely productive and always reliable. The pods are flat, of good size, and handsome appearance, always stringless, tender until full grown and of excellent flavor. Pkt. 10 cts., $\frac{1}{2}$ pt. 20 cts., pt. 30 cts., qt. 55 cts., pk. \$2.85, bus. \$9.60.

Burpee's Stringless Green-Pod. Early and productive, with pods round, thick and very meaty; always perfectly stringless and tender even when old. $\frac{1}{2}$ pt. 20 cts., pt. 30 cts., qt. 55 cts., pk. \$2.85, bus. \$9.60.

Full Measure. A well-known variety for market-gardens as well as home-gardens. The pods are of good size, round, thick, stringless, tender, and of excellent quality. $\frac{1}{2}$ pt. 20 cts., pt. 30 cts., qt. 55 cts., pk. \$2.85, bus. \$9.60.

Giant Stringless Green-Pod. ★ A little later to bear than the kinds described above but a very dependable producer of big crops. The pods are long, dark green, round, always stringless and very tender. Pkt. 10 cts., $\frac{1}{2}$ pt. 20 cts., pt. 30 cts., qt. 55 cts., pk. \$2.85, bus. \$9.60.



Bountiful Beans

DWARF GREEN-PODDED, continued

Improved Early Red Valentine. Extra-early strain of the old favorite, Red Valentine. $\frac{1}{2}$ pt. 20 cts., pt. 30 cts., qt. 55 cts., pk. \$2.85, bus. \$9.60.

Italian Black-Eye. A very prolific yielder with long, round, slender pods, dark green in color and stringless. $\frac{1}{2}$ pt. 20 cts., pt. 30 cts., qt. 55 cts., pk. \$2.75, bus. \$9.

Plentiful. Bronze Medal, 1939 All-America Selections. Very productive and of excellent quality. Pods long, flat, straight, medium deep green, brittle, stringless, and of a distinctive flavor. Notably resistant to common rusts. A splendid variety for home-garden or market. Medium early. $\frac{1}{2}$ pt. 20 cts., pt. 35 cts., qt. 65 cts., pk. \$3.25, bus. \$11.

Stringless Green-Pod Refugee. Perfectly stringless even when old enough to shell. The plants are large, producing heavy crops; pods large, round, and fleshy. Ideal for canning. $\frac{1}{2}$ pt. 20 cts., pt. 30 cts., qt. 55 cts., pk. \$2.85, bus. \$9.60.

Tendergreen. ★ This new, early Bean has perfectly round pods $6\frac{1}{2}$ to 7 inches long, quite slender, straight, light green, tender, absolutely stringless, and of high quality. Very productive. $\frac{1}{2}$ pt. 20 cts., pt. 35 cts., qt. 60 cts., pk. \$3, bus. \$9.90.



Tendergreen Beans

Dwarf Wax-podded Beans

Improved Golden Wax. Pods are flat and a little longer and thicker than those of the original Golden Wax. Hardy and prolific; quality fair. $\frac{1}{2}$ pt. 20 cts., pt. 35 cts., qt. 60 cts., pk. \$3, bus. \$9.90.

Keeney's Rustless Golden Wax. A good producer of medium-sized, flat, well-filled stringless pods practically rust-proof. $\frac{1}{2}$ pt. 20 cts., pt. 35 cts., qt. 60 cts., pk. \$3, bus. \$9.90.

Pencil-Pod Black Wax. A late variety for midseason use. Pods round, long, slender, and of fine quality. $\frac{1}{2}$ pt. 20 cts., pt. 35 cts., qt. 60 cts., pk. \$3, bus. \$9.90.

Round-Pod Kidney, or Brittle Wax. ★ This Bean is superior in flavor, remarkably brittle and tender, and absolutely stringless. The pods are long, round and bright yellow. $\frac{1}{2}$ pt. 20 cts., pt. 35 cts., qt. 65 cts., pk. \$3.25, bus. \$11.

Sure-Crop Stringless Wax. ★ A strong-growing, early variety, producing large crops under all conditions. The pods are of good size, broad, semi-round, and bright yellow in color, entirely stringless, and of fine quality. Pkt. 10 cts., $\frac{1}{2}$ pt. 20 cts., pt. 35 cts., qt. 60 cts., pk. \$3, bus. \$9.90.

Wardwell's Kidney Wax. An old favorite. Hardy, early, and of splendid quality. The waxy yellow pods are broad, flat, brittle, and almost stringless. Pkt. 10 cts., $\frac{1}{2}$ pt. 20 cts., pt. 35 cts., qt. 60 cts., pk. \$3, bus. \$9.90.

Yellow Bountiful Wax. ★ Very meaty, yellow pods, slightly curved, about 7 inches long, absolutely stringless, and of delicious flavor. Very productive. Practically disease-resistant. $\frac{1}{2}$ pt. 20 cts., pt. 35 cts., qt. 60 cts., pk. \$3, bus. \$9.90.

NOTE: One pint of Beans weighs about 1 lb., 1 quart about 2 lbs. and 1 bushel 60 lbs.

BEANS, continued



Leviathan Pole Lima Beans

Bush Lima Beans

Never plant Bush Lima Beans until the weather is really warm. Plant on edge, with the eye down, 4 to 5 inches apart and 1 inch deep; thin the plants to 8 to 10 inches apart.

*A quart of seed will sow 150 feet of furrow;
a bushel will sow an acre*

Burpee's Bush. A hardy, reliable variety; prolific, medium early, and of good size and quality. $\frac{1}{2}$ pt. 20 cts., pt. 35 cts., qt. 60 cts., pk. \$3, bus. \$10.

Burpee Improved. ★ The large bushes bear loads of big, broad pods, each containing 4 to 5 Beans of the largest size and finest quality. Medium early. $\frac{1}{2}$ pt. 20 cts., pt. 35 cts., qt. 65 cts., pk. \$3.25, bus. \$11.

Fordhook. ★ Extra early and extremely prolific, bearing good-sized pods which contain 3 to 5 large, thick, meaty Beans of delicious quality. $\frac{1}{2}$ pt. 20 cts., pt. 35 cts., qt. 65 cts., pk. \$3.50, bus. \$12.

Wood's Prolific. An improved strain of the small-seeded Lima, valuable for planting where the large-seeded Limas do not thrive. The quality is extra-fine. $\frac{1}{2}$ pt. 20 cts., pt. 35 cts., qt. 60 cts., pk. \$3, bus. \$10.

Pole Lima Beans

These take longer to bear than the Bush Limas, but yield larger crops and continue to bear for a longer period. The seed is usually planted in hills, at least 3 feet apart each way, dropping 4 to 6 Beans to the hill. Set poles 8 to 10 feet long in each hill to support the vines.

A quart of seed will plant 100 hills; 20 quarts will plant one acre

Carpinteria. Medium-late with large pods, containing 3 to 5 Beans which are very thick and mealy and retain their green color even when ripe. $\frac{1}{2}$ pt. 20 cts., pt. 35 cts., qt. 60 cts., pk. \$3, bus. \$10.

Detroit Mammoth. Medium early. Pods 9 to 11 inches long, containing 5 to 7 mammoth Beans of excellent quality. $\frac{1}{2}$ pt. 20 cts., pt. 35 cts., qt. 65 cts., pk. \$3.25, bus. \$11.

Extra-Early Jersey. Comes into marketable size a week earlier than other varieties. Good size and fair quality. $\frac{1}{2}$ pt. 20 cts., pt. 35 cts., qt. 65 cts., pk. \$3.25, bus. \$11.

King of the Garden. ★ Broad pods 5 to 6 inches long, containing 4 or 5 large, flat Beans. Allow only two vines to each pole. $\frac{1}{2}$ pt. 20 cts., pt. 35 cts., qt. 60 cts., pk. \$3, bus. \$10.

Leviathan. ★ A general favorite, being early, vigorous, and productive, bearing loads of giant pods, well filled with large tender Beans. $\frac{1}{2}$ pt. 20 cts., pt. 35 cts., qt. 65 cts., pk. \$3.25, bus. \$11.

New Potato Lima. One of the heaviest producers of Beans per bushel of pods. A thick Bean of good size and excellent quality. $\frac{1}{2}$ pt. 20 cts., pt. 35 cts., qt. 65 cts., pk. \$3.75, bus. \$13.

Siebert's Early. Extra-early and one of the most productive. The Beans are large and thick through and of fine quality. $\frac{1}{2}$ pt. 20 cts., pt. 35 cts., qt. 65 cts., pk. \$3.25, bus. \$11.

Wax- and Green-podded Pole Beans

Do not plant until the weather is really warm, then cover 6 to 10 Beans 2 inches deep in hills 3 to 4 feet apart, thinning out to 3 or 4 plants to each pole.

A quart of seed will plant 100 to 150 hills; from 12 to 16 quarts will plant an acre according to the size of the Beans

Asparagus, or Yard-Long. A quick-growing Pole Bean with slender, curved pods 2 feet or more in length. Tender and flavorful when young. $\frac{1}{2}$ pt. 45 cts., pt. 75 cts., qt. \$1.25.

Burger's Green-Pod Stringless. Extra-early and prolific, bearing round, brittle pods of fine quality. $\frac{1}{2}$ pt. 20 cts., pt. 35 cts., qt. 65 cts., pk. \$3.25, bus. \$11.

Golden Cluster Wax. Extra-early, most attractive in appearance and unsurpassed in flavor, but the pods should be picked young. $\frac{1}{2}$ pt. 20 cts., pt. 35 cts., qt. 65 cts., pk. \$3.50, bus. \$12.

Kentucky Wonder. ★ Early, reliable under all conditions, and immensely productive, bearing long, round, dark green pods of fine quality. Pkt. 10 cts., $\frac{1}{2}$ pt. 20 cts., pt. 30 cts., qt. 55 cts., pk. \$2.85, bus. \$9.60.

Kentucky Wonder Wax. ★ A Wax Bean similar in productivity to the green-podded variety. Pkt. 10 cts., $\frac{1}{2}$ pt. 20 cts., pt. 35 cts., qt. 65 cts., pk. \$3.25, bus. \$11.

King Horticultural. Also known as Pole Roman Bean or Speckled Cranberry. Late but productive. The Beans are extra good, either green or dry. $\frac{1}{2}$ pt. 20 cts., pt. 35 cts., qt. 60 cts., pk. \$3, bus. \$10.

Lazy Wife. Late sort with great clusters of richly flavored green pods which are 5 to 6 inches long. Useful also as a Shell Bean. $\frac{1}{2}$ pt. 20 cts., pt. 35 cts., qt. 60 cts., pk. \$3, bus. \$10.

Scarlet Runner. An ornamental climber whose bright scarlet blossoms are most attractive. The dried Beans are used like Limas. $\frac{1}{2}$ pt. 25 cts., pt. 40 cts., qt. 75 cts., pk. \$4.25, bus. \$15.

Dwarf Green-podded Beans for Shelling

Dwarf Horticultural. Also known as Roman Bean. A fine producer of green and dry Shell Beans, and String Beans. The ripe Beans are round and speckled with purplish red. $\frac{1}{2}$ pt. 20 cts., pt. 30 cts., qt. 55 cts., pk. \$2.85, bus. \$9.60.

Red Kidney. Resembles the White Kidney except that the ripe Beans are red in color. $\frac{1}{2}$ pt. 20 cts., pt. 35 cts., qt. 60 cts., pk. \$3, bus. \$10.

White Kidney. Largely grown for dry Shell Beans. The ripe Beans are large, kidney-shaped, pure white and do not discolor when cooked. $\frac{1}{2}$ pt. 20 cts., pt. 35 cts., qt. 60 cts., pk. \$3, bus. \$10.

White Marrowfat. The favorite Bean for baking. A good producer of large, white Beans of fine quality. $\frac{1}{2}$ pt. 20 cts., pt. 35 cts., qt. 60 cts., pk. \$3, bus. \$10.

White Navy, or Pea Bean. Used mostly for field planting; a sure cropper and extremely prolific. The dried Beans are small, round, and white. $\frac{1}{2}$ pt. 20 cts., pt. 30 cts., qt. 55 cts., pk. \$2.75, bus. \$9.

★WHEN IN DOUBT, ORDER THE STAR VARIETIES

BEETS

Sow seed as early in the spring as possible, in drills 15 to 18 inches apart, covering about 1 inch deep, and thin the plants to 2 to 3 inches apart. Plantings every three weeks until mid-July will furnish a supply of fresh Beets until late fall. Late in June make a large planting to produce Beets for winter use. Harvest before frost and store in pits outdoors, or in a dry cellar. For an extra-early crop start the seed under glass.

An ounce of seed will sow about 50 feet of drill; 6 pounds an acre

Crosby's Extra-Early. ★ Dark red skin and deep red flesh; very uniform in shape and size. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1, 5 lbs. \$4.50.

Detroit Dark Red. ★ Early, smooth, and uniformly globe-shaped, with dark red skin and flesh, fine-grained, tender and sweet. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1, 5 lbs. \$4.50.

Early Blood Turnip. Dark red skin and bright red flesh of good quality. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1, 5 lbs. \$4.50.

Early Model. Extra-early and top-notch in quality. Uniformly globe-shaped, with smooth, dark red skin and fine-grained, crimson flesh. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1, 5 lbs. \$4.50.

Early Red Chief. This striking new Beet is the result of several years' breeding work. It is faster growing than any other Beet and therefore earlier in reaching a marketable size. The roots are smooth, perfectly globular, deep dark red all the way through, without zoning, of uniform shape and size, with slender taproots. Tops are medium, just right for bunching. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.25, 5 lbs. \$5.50.

Early Wonder. ★ Smooth, dark red flesh. Early. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1, 5 lbs. \$4.50.

Extra-Early Egyptian. One of the earliest. Medium-sized, flat, smooth roots with dark crimson skin and flesh. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1, 5 lbs. \$4.50.

Perfected Detroit. An improved strain of Detroit Dark Red. It is early, with round, dark red root and medium foliage. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1, 5 lbs. \$4.50.



Crosby's
Extra-Early
Beet

SWISS CHARD

One of the best of the vegetables grown for "greens." It takes the same culture as Beets except that the plants should be thinned to stand 8 inches apart. Pull the leaves off as they become ready and new ones will grow in their place.

An ounce of seed will sow about 100 feet of drill

Fordhook Giant. ★ An outstanding new variety with curly, rich blue-green leaves and broad white ribs, of a quality better than spinach. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.

Lucullus Giant. A tall variety with deeply wrinkled and crumpled leaves. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 40 cts., lb. \$1.

MANGEL-WURZEL or CATTLE BEETS

Sow the seed in April or early May and when the plants are 2 or 3 inches high, thin them out to stand 8 to 10 inches apart. Harvest before frost and store in pits outdoors or in a dry, frost-proof cellar.

Four to 5 pounds of seed will sow an acre in drills, 8 to 10 pounds when broadcast

Golden Tankard. ★ Large, long roots unusually high in feeding value. Oz. 10 cts., $\frac{1}{4}$ lb. 20 cts., lb. 65 cts., 5 lbs. \$3.

Klein Wanzleben. Rigorously selected for high sugar content. Oz. 10 cts., $\frac{1}{4}$ lb. 20 cts., lb. 65 cts., 5 lbs. \$3.

Long Red Mammoth. ★ Enormous roots which grow largely above ground and are easy to harvest. Oz. 10 cts., $\frac{1}{4}$ lb. 20 cts., lb. 65 cts., 5 lbs. \$3.

Norbiton Giant Long Red. Somewhat similar to the above. Excellent for feeding to stock. Oz. 10 cts., $\frac{1}{4}$ lb. 20 cts., lb. 65 cts., 5 lbs. \$3.

Red Globe. Oval or globe-shaped, giving heavy yields on shallow soils. A good keeper. Oz. 10 cts., $\frac{1}{4}$ lb. 20 cts., lb. 65 cts., 5 lbs. \$3.

White Sugar. Very productive, rich in sugar and especially good for stock-feeding. Oz. 10 cts., $\frac{1}{4}$ lb. 20 cts., lb. 65 cts., 5 lbs. \$3.

Long Red
Mammoth
Mangel-
Wurzel



CHICORY

The Large-rooted variety is grown for its roots, which may be cooked and served like turnips.

The Witloof variety is highly esteemed as a winter salad, for which purpose the plants are taken up in the fall, cut back nearly to the top of the root, and then covered with soil in a box or trench in a warm cellar. The new leaves which grow from the old roots in about a month's time are nearly white, crisp and of a fine, piquant flavor. Sow Chicory seed in April or May, in shallow drills, and thin the plants to stand 4 to 6 inches apart.

An ounce will sow about 100 feet of drill

Large-Rooted. Pkt. 10 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1, lb. \$3.

Witloof. Sometimes called French Endive. Pkt. 10 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1, lb. \$3.

COLLARDS

Georgia, or Southern. Largely grown for "greens" in the southern states. Produces a large cluster of tender leaves at the top of its long stem. Sow late in the spring and give the plants plenty of room to develop. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 30 cts., lb. 90 cts.

CRESS (For peppery salads and garnishes)

Fine-Curled Pepper Grass. Sow the seed any time from early spring on. It need not be grown in rows and requires no thinning. The leaves can be cut several times before the plants begin to form seed. Make sowings every week or ten days, a small patch at a time, for a continuous supply. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 25 cts., lb. 75 cts.

Water Cress. (True.) Grows in damp places. Sow the seed in shallow water along the bank of a stream. No further care is required after sowing. Pkt. 15 cts., oz. 60 cts., $\frac{1}{4}$ lb. \$1.75, lb. \$6.



Copenhagen Market Cabbage

CABBAGE

Early Cabbage should be started under glass in January or early February, and transplanted as soon as the weather is suitable. The second crop should be started in March or April, and Winter Cabbage in May. Plants should stand $1\frac{1}{2}$ to 2 feet apart, according to variety. Slug Shot will control the Cabbage worm. Cabbage requires rich soil, and the young plants can be pushed along rapidly with frequent small doses of Nitrate of Soda.

An ounce of seed will produce 1,500 to 2,000 plants

Copenhagen Market, Special Strain. ★ Far superior to the ordinary strain. A profitable variety for market-gardeners. Pkt. 15 cts., oz. 45 cts., $\frac{1}{4}$ lb. \$1.25, lb. \$4.

Copenhagen Market. Matures in about 100 days from sowing. The heads are round, extremely solid, with small core and of excellent quality. Pkt. 10 cts., oz. 35 cts., $\frac{1}{4}$ lb. 90 cts., lb. \$2.50.

Copenhagen Market ("Yellows"-Resistant Strain). Pkt. 10 cts., $\frac{1}{2}$ oz. 25 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1.15, lb. \$3.50.

Early Summer. Second-early Cabbage of the flat or drumhead type. Heads are of medium size and quite solid. Pkt. 10 cts., oz. 35 cts., $\frac{1}{4}$ lb. 90 cts., lb. \$2.50.

Glory of Enkhuizen. ★ The heads are solid and of fine quality. A good keeper. Pkt. 10 cts., oz. 35 cts., $\frac{1}{4}$ lb. 90 cts., lb. \$2.50.

Glory of Enkhuizen ("Yellows"-Resistant Strain). Pkt. 10 cts., $\frac{1}{2}$ oz. 25 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1.15, lb. \$3.50.

Golden Acre. Earliness and fine quality make it a leader of the round-headed varieties. Pkt. 10 cts., oz. 45 cts., $\frac{1}{4}$ lb. \$1.25, lb. \$4.

Hollander, or Short-Stem Danish Ballhead. ★ The heads are of only medium size but round, deep, and sound as a bullet. Good keeper. Pkt. 10 cts., oz. 35 cts., $\frac{1}{4}$ lb. 90 cts., lb. \$2.50.

Hollander ("Yellows"-Resistant Strain). Pkt. 10 cts., $\frac{1}{2}$ oz. 25 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1.15, lb. \$3.50.

Penn State Ballhead. ★ (Originator's strain furnished in sealed packages.) A very superior Cabbage developed at Pennsylvania State College. The hard, tight heads weigh one-third more than ordinary heads of same size and are unusually good keepers. Matures in 130 days. Pkt. 15 cts., $\frac{1}{2}$ oz. 30 cts., oz. 50 cts., $\frac{1}{4}$ lb. \$1.50, lb. \$5.

Premium Flat Dutch. A heavy yielder, producing large, heavy, flat heads which keep well until late in winter. Pkt. 10 cts., oz. 35 cts., $\frac{1}{4}$ lb. 90 cts., lb. \$2.50.

Select Early Jersey Wakefield. Matures its rather small, solid, pointed heads in 100 days from sowing. Pkt. 10 cts., oz. 35 cts., $\frac{1}{4}$ lb. 90 cts., lb. \$2.50.

Succession. A second-early drumhead variety which is a sure header under all conditions and at all seasons. Pkt. 10 cts., oz. 35 cts., $\frac{1}{4}$ lb. 90 cts., lb. \$2.50.

Red Cabbage

Danish Round Red. A superior strain with very hard, perfectly round heads in which the deep color extends clear to the center. Pkt. 10 cts., oz. 50 cts., $\frac{1}{4}$ lb. \$1.50, lb. \$5.

Mammoth Rock Red. Heads flattened and very large. A reliable and popular Red Cabbage. Pkt. 10 cts., oz. 35 cts., $\frac{1}{4}$ lb. \$1, lb. \$3.

Savoy Cabbage

The leaves are curled and crinkled, and the heads are firm and solid. They are best late in the season after a heavy frost.

Chieftain. Solid heads with nicely savoyed leaves. Pkt. 10 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1.15, lb. \$3.50.

American Drumhead Savoy. Large, solid heads and few outer leaves. Pkt. 10 cts., oz. 35 cts., $\frac{1}{4}$ lb. 90 cts., lb. \$2.50.

Chinese or Celery Cabbage

Pe-Tsai. Produces heads about 18 inches high and 4 inches or more in diameter. Sow the seed the last of June or early in July, in shallow drills about 2 feet apart, and thin or transplant the seedlings to stand about 15 inches apart. Pkt. 10 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1.15, lb. \$3.50.

CAULIFLOWER

Sow the seed and treat the young plants exactly as you would cabbage, starting the spring crop in flats indoors or in the hotbed early in February and transplanting to the garden in May after danger from frost is past. Sow for fall crop in coldframe or seedbed in May and transplant in July. Set the plants $1\frac{1}{2}$ feet apart, digging in plenty of manure if it is available. When the plants show signs of heading, water them freely. Finally, when the heads are about 2 inches in diameter, tie the outer leaves loosely together over the top with a soft twine, to protect them from the sun and blanch them white.

An ounce of seed will produce about 2,000 plants

Danish Giant, or Dry Weather. A little later than Snowball and the plants are larger. Preferred in some sections because it will grow and head during dry weather. Pkt. 40 cts., $\frac{1}{4}$ oz. \$1.25, oz. \$4.

Select Early Snowball. ★ Extra-early and one of the surest headers. It produces deep, solid heads of medium size, pure white, and of fine quality. Being compact in growth, the plants can be set close together. Forces easily and is often grown in greenhouse or frames. Pkt. 40 cts., $\frac{1}{4}$ oz. \$1.25, oz. \$4.

Snowdrift. ★ Somewhat more vigorous than Snowball and selected to produce a larger head without losing materially in earliness. Harvesting may be completed 120 days after date of sowing. The pure white heads are remarkable for their great depth and unexcelled white color, and the curd is of fine texture, resistant in a high measure to "riciness" and "fuzziness." Heads in which small green leaves appear will be sought in vain and the inner leaves perfectly protect the head until nearly full grown. Pkt. 40 cts., $\frac{1}{4}$ oz. \$1.50, oz. \$5.



Snowdrift Cauliflower

★ WHEN IN DOUBT, ORDER THE STAR VARIETIES

CARROTS

Carrots succeed in any good garden soil; freshly manured ground will produce split and misshapen roots. Sow the seed any time after the frost is out of the ground, covering it about an inch deep and pressing down firmly. Thin the seedlings to 2 inches apart until they begin to reach edible size, when they should be again thinned, this time to 4 inches. The thinnings will be found to be especially good eating. Make sowings every 3 to 4 weeks from late March to the end of June. Carrots for winter storage should be sown in early June.

*An ounce of seed will sow about 100 feet of drill;
3 to 4 pounds are required to sow an acre*

Chantenay. ★ The roots are broad at the top, tapering to an abrupt point. It produces heavy yields on comparatively shallow soils. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.

Danvers Half-Long. ★ The roots are smooth, nearly cylindrical, bluntly pointed, and in good soil will attain a length of 6 to 8 inches. The skin and flesh are bright orange-red, fine-grained and tender. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.

Early Scarlet Horn, Blunt Root. A quick-growing variety which makes thick, blunt-ended roots about 3 inches long, deep orange in color. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$1.75.

Improved Long Orange. Large, tapering roots, 12 to 14 inches long, smooth, bright orange in color and of good quality. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.

Morse's Bunching. Matures in 80 days. Roots rich even reddish orange, small core; 8 inches long, sweet, tender; short, strong tops. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$1.75.

Red-Cored Chantenay. A rich orange color, decidedly deeper than the ordinary Chantenay. Roots are uniform in size and appearance, and a little earlier in maturity than ordinary Chantenay. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.

St. Valery. A tapering Carrot of fine quality, about 10 inches long, deep reddish orange in color. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.

Supreme Half-Long. Cylindrical roots 6 to 7 inches long, rich deep orange, with uniformly small orange-red core. Tops short but sturdy. Recommended for shipping, or for the home or market garden. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$1.75.



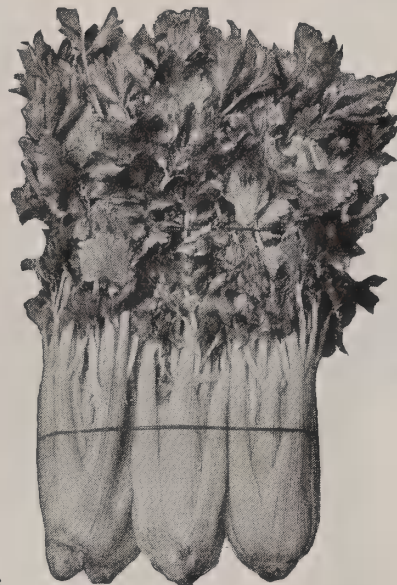
Chantenay

Early Scarlet Horn

Danvers Half-Long

CELERY

Celery wants plenty of fertilizer—enrich the spot where you are going to grow it with manure, humus, or rich compost, or if you lack these, with a commercial fertilizer high in nitrogen. For early crops sow indoors or in a hot-bed about March 1, barely covering the seed with soil. When the seedlings are 2 to 3 inches high, thin out or transplant $1\frac{1}{2}$ to 2 inches apart. Set out by the end of May. For winter Celery, sow seed in a coldframe or sheltered spot in the garden about mid-April and reset in the trenches about July 1. It is a good plan to cut off the tops of the plants when they are 4 or 5 inches high to make them more stocky.



Golden Plume Celery

*An ounce of seed will produce 3,000 plants;
one-half pound is required for an acre*

Easy Blanching. ★ The stalks are of medium height, thick through, and brittle; the heart is heavy, blanching quickly to a clear light yellow. Less liable to blight than other sorts, and good for both early and late crop. Pkt. 10 cts., oz. 35 cts., $\frac{1}{4}$ lb. \$1, lb. \$3.

Fordhook. Stalks smooth, entirely free from stringy fibers, and $1\frac{1}{2}$ inches through when cut. Blanches pure white but heart has a tinge of light, buttery yellow. Crisp, nutty flavor. Pkt. 10 cts., oz. 35 cts., $\frac{1}{4}$ lb. \$1, lb. \$3.

Giant Pascal. ★ A fine, late Celery with broad, thick, heavy stalks of superb nutty flavor; blanches yellowish white. A good winter keeper, retaining its flavor and crispness in storage. Pkt. 10 cts., oz. 35 cts., $\frac{1}{4}$ lb. \$1, lb. \$3.

Golden Phenomenal. Grows 27 to 28 inches over all, and from 8 to 9 inches to the joint. Plants are heavy, compact, and full-hearted. The stems are broad and thick, brittle and free from strings, of fine flavor, and of excellent quality all through. Pkt. 15 cts., oz. 60 cts., $\frac{1}{4}$ lb. \$1.75, lb. \$6.

Golden Plume or Wonderful. ★ Resembles Golden Self-blanching in crispness and flavor, but much larger and ranker in growth, blanches quicker and matures earlier. It is also more blight-resistant than Golden Self-blanching. Pkt. 15 cts., oz. 50 cts., $\frac{1}{4}$ lb. \$1.50, lb. \$5.

Golden Self-Blanching. It is rather low and compact in growth, with thick, round stalks and heavy heart, blanching easily to a rich golden yellow. In flavor and quality it is unsurpassed. A favorite for early market. Pkt. 10 cts., oz. 50 cts., $\frac{1}{4}$ lb. \$1.50, lb. \$5.

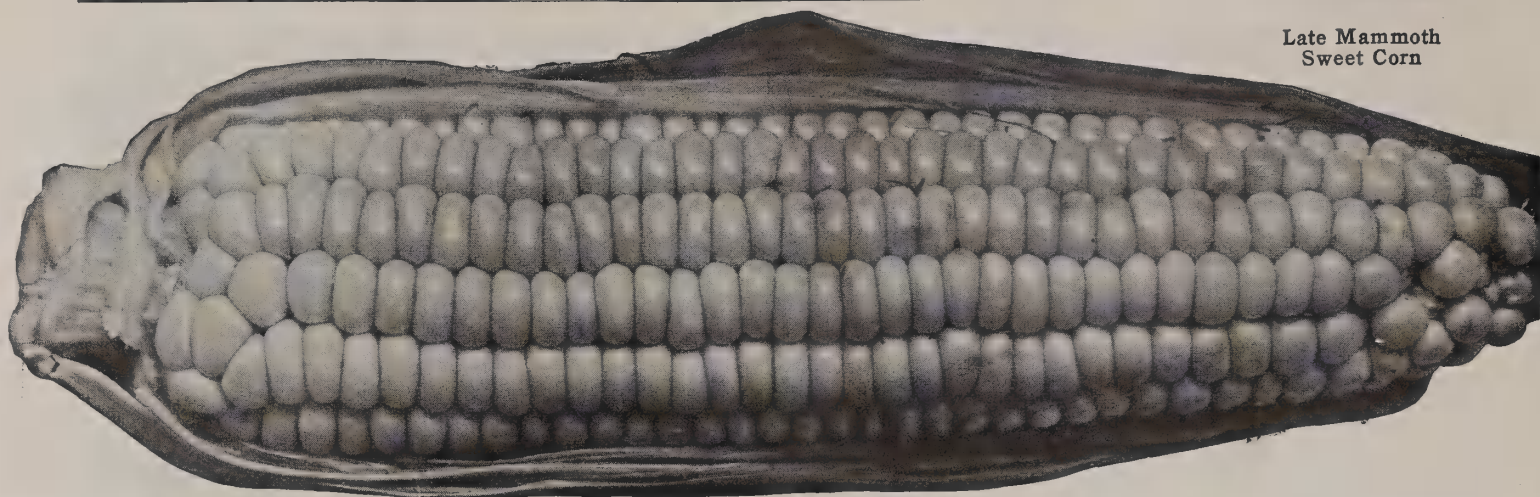
White Plume. A very early, easily grown variety with tall, handsome stalks which blanch quickly to a silvery white. A favorite. Pkt. 10 cts., oz. 35 cts., $\frac{1}{4}$ lb. \$1, lb. \$3.

Winter Queen. Another late sort of strong, compact growth; solid and excels in keeping quality. Medium in height with thick, brittle stalks. Pkt. 10 cts., oz. 35 cts., $\frac{1}{4}$ lb. \$1, lb. \$3.

CELERIAC or TURNIP-ROOTED CELERY

The roots—not the stalks—are the edible portion of this plant. They are used for flavoring soups and in stews, in place of Celery or celery seed, and are also cooked or used as a salad. Grown like Celery but does not require blanching.

Large Prague. A productive variety with large, round, smooth roots, free from side shoots. Pkt. 10 cts., oz. 35 cts., $\frac{1}{4}$ lb. \$1, lb. \$3.

Late Mammoth
Sweet Corn

SWEET CORN

Do not make the first sowing until the soil is warm and comparatively dry—the middle of May is usually the earliest it is safe to sow Corn in this section. Plant every 2 weeks until early July. It can be grown in hills or in rows. Hills are placed 2 to 3 feet apart each way, dropping about six seeds in each hill and, when the plants are about 8 inches high, pulling out all but the three or four strongest. Rows are spaced $2\frac{1}{2}$ to $3\frac{1}{2}$ feet apart and the plants thinned to stand 12 to 15 inches apart in the rows. In planting, cover the seed about 2 inches deep, or a little deeper if the weather is very dry. Growing Corn requires lots of water. In order that the ears may develop perfectly they must receive plenty of pollen from near-by stalks; consequently, it is always best to plant Sweet Corn in several short rows, side by side, rather than in one or two long rows. If you want to enjoy Sweet Corn far sweeter and richer than any you have ever been able to buy, grow it yourself and pick it just before it is to be cooked.

*One quart of seed will plant 200 to 300 hills or 300 feet of row;
6 to 8 quarts will plant an acre*

Early Varieties

Burbank's Bantam. ★ The ear is 7 to 8 inches long, with 12 to 16 rows of delicious yellow kernels, and matures in 65 to 70 days. $\frac{1}{2}$ pt. 20 cts., pt. 30 cts., qt. 50 cts., pk. \$2.40, bus. \$7.50.

Early Mayflower. Ears 7 inches long with 8 or 10 rows of broad, tender, pure white kernels. Fine for first early. $\frac{1}{2}$ pt. 20 cts., pt. 35 cts., qt. 55 cts., pk. \$2.50, bus. \$8.

Extra-Early Adams. Not a true Sweet Corn but extremely hardy and early. $\frac{1}{2}$ pt. 15 cts., pt. 25 cts., qt. 40 cts., pk. \$2, bus. \$6.

Golden Bantam. ★ Planted a week or so earlier than other sorts, it can always be depended on to supply the first true Sweet Corn of the season. Pkt. 10 cts., $\frac{1}{2}$ pt. 20 cts., pt. 30 cts., qt. 50 cts., pk. \$2.40, bus. \$7.50.

Golden Sunshine. An improvement on Golden Bantam in that the ears are an inch longer, 12-rowed instead of 8-rowed, and it matures about 10 days earlier. $\frac{1}{2}$ pt. 20 cts., pt. 30 cts., qt. 55 cts., pk. \$2.50, bus. \$8.

Medium Early Varieties

Barden's Wonder Bantam. ★ Large yellow deep grains. Ears a third larger than Golden Bantam, often 8 to 10 inches long. Early as Bantam and equal if not superior in quality. $\frac{1}{2}$ pt. 20 cts., pt. 30 cts., qt. 55 cts., pk. \$2.50, bus. \$8.

Black Mexican. The ears are of good size with broad kernels which are bluish white when they reach the edible stage and turn violet when cooked. Very sweet and tender. $\frac{1}{2}$ pt. 20 cts., pt. 30 cts., qt. 55 cts., pk. \$2.50, bus. \$8.

Early Champion. A medium-early white variety. Ears large, 14- or 16-rowed, well filled with large, broad grains of good quality. $\frac{1}{2}$ pt. 20 cts., pt. 30 cts., qt. 50 cts., pk. \$2.40, bus. \$7.50.

Early Evergreen. Not quite so tall but several days earlier than Stowell's, bearing large ears of typical Evergreen type and quality. $\frac{1}{2}$ pt. 20 cts., pt. 30 cts., qt. 50 cts., pk. \$2.40, bus. \$7.50.

Early Mammoth. ★ Coming in with Early Evergreen, it produces heavy ears 9 inches long with very broad grains of delicious quality. $\frac{1}{2}$ pt. 20 cts., pt. 30 cts., qt. 50 cts., pk. \$2.40, bus. \$7.50.

Golden Giant. ★ As sweet, tender, and rich in flavor as the famous Golden Bantam, practically as early, more productive, and much larger. $\frac{1}{2}$ pt. 20 cts., pt. 30 cts., qt. 50 cts., pk. \$2.40, bus. \$7.50.

Howling Mob. ★ Medium-early; unusually large for so early a sort and not surpassed in quality by any other white Sweet Corn. $\frac{1}{2}$ pt. 20 cts., pt. 30 cts., qt. 50 cts., pk. \$2.40, bus. \$7.50.

Kendel's Early Giant. Medium-early, white sort with ears 8 to 9 inches long and 12-rowed, of good quality and very productive. $\frac{1}{2}$ pt. 20 cts., pt. 30 cts., qt. 50 cts., pk. \$2.40, bus. \$7.50.

Scott's Early Perfection. ★ As an early main-crop white Sweet Corn it has no superiors for either home or market use. Pkt. 10 cts., $\frac{1}{2}$ pt. 20 cts., pt. 30 cts., qt. 55 cts., pk. \$2.50, bus. \$8.

Whipple's Early White. Matures about a week later than the small extra-early sorts. Ears 8 to 9 inches long with 16 or 18 rows of pearly white and sweet grains. $\frac{1}{2}$ pt. 20 cts., pt. 30 cts., qt. 55 cts., pk. \$2.50, bus. \$8.

Whipple's Early Yellow. ★ Ears about twice the size of Golden Bantam, and of very fine quality. Matures in about 85 days. $\frac{1}{2}$ pt. 20 cts., pt. 30 cts., qt. 50 cts., pk. \$2.40, bus. \$7.50.

NOTE: One pint of Corn weighs about $\frac{3}{4}$ pound, one quart about $1\frac{1}{2}$ pounds, and one bushel about 48 pounds.

We deliver. See page 143



Golden Evergreen Sweet Corn

Late Sweet Corn

Country Gentleman. Fine rich flavor. The ears are 7 to 8 inches long with long, narrow kernels set densely and irregularly on a very small cob. Often called "Shoe-Peg." Pkt. 10 cts., ½pt. 20 cts., pt. 30 cts., qt. 55 cts., pk. \$2.50, bus. \$8.

Golden Colonel. ★ Given award of merit in All-America Seed Selections for 1936. Like Country Gentleman except color, which is brilliant yellow. The only yellow Sweet Corn ripening with main-crop sorts. ½pt. 20 cts., pt. 35 cts., qt. 60 cts., pk. \$2.75, bus. \$9.

Golden Evergreen. ★ Fine, large-eared, deep-grained yellow Sweet Corn. A midseason Corn that remains tender and sweet for a long time after it reaches full size. ½pt. 20 cts., pt. 30 cts., qt. 50 cts., pk. \$2.40, bus. \$7.50.

Late Mammoth. ★ The largest of all Sweet Corns and one of the very finest in quality. Ears often 12 inches long, deliciously sweet. A week or ten days later than Evergreen. ½pt. 20 cts., pt. 30 cts., qt. 55 cts., pk. \$2.50, bus. \$8.

Stowell's Evergreen. ★ The ears are 8 to 10 inches long with 16 to 18 rows of very deep, white sweet kernels. It remains tender and sweet for a long time. Pkt. 10 cts., ½pt. 20 cts., pt. 30 cts., qt. 55 cts., pk. \$2.50, bus. \$8.

White Evergreen. A sturdy and productive strain of Stowell's, bearing a slightly larger ear and broader, whiter grain. ½pt. 20 cts., pt. 30 cts., qt. 55 cts., pk. \$2.50, bus. \$8.

Hybrid Varieties

Hybrid varieties can be depended on to produce crops of better quality and larger yields. They are extremely uniform in ear characteristics and in maturity and are resistant to disease.

Golden Cross Bantam. Ears 10 to 14-rowed, 7½ to 8 inches long, and of excellent quality. Kernels light yellow, medium in width and depth. Matures in about 88 days. ½pt. 30 cts., pt. 45 cts., qt. 70 cts., pk. \$3.50, bus. \$12.

Golden Evergreen Hybrid. Kernels golden yellow, medium wide and deep, sweet and of fine quality. Ears large, 14 to 16-rowed. Matures in about 95 days. ½pt. 30 cts., pt. 45 cts., qt. 75 cts., pk. \$3.75, bus. \$13.

Marcross C 13.6. An outstanding early variety. Large, thick ears and very uniform. Kernels golden yellow and of good quality. Ready for market in about 74 days. ½pt. 30 cts., pt. 45 cts., qt. 75 cts., pk. \$3.75, bus. \$13.

Spancross C 2. An early golden yellow variety of good quality and yield. Ears slender, 10 to 14-rowed and well filled, uniform and attractive. Ready for market in about 72 days. ½pt. 30 cts., pt. 45 cts., qt. 70 cts., pk. \$3.50, bus. \$12.

Whipcross P 39. A very prolific variety. Ears 12 to 14-rowed, of medium length and well filled at tip. Kernels golden yellow and of good flavor. Season about 84 days. ½pt. 30 cts., pt. 45 cts., qt. 70 cts., pk. \$3.50, bus. \$12.

POP-CORN

Golden Queen. Large golden yellow kernels. Pops pure white. Lb. 20 cts., 2 lbs. 35 cts.

White Rice. The most popular sort for general use. Productive; popping quality excellent. Lb. 20 cts., 2 lbs. 35 cts.

CARDOON

Grown somewhat like celery and served like asparagus. Large, fleshy plants used as a winter vegetable. The blanched stalks and ribs of the inner leaves are tender and of a fine flavor when cooked. Pkt. 10 cts., ½oz. 25 cts., oz. 40 cts., ¼lb. \$1.25, lb. \$4.

CORN SALAD

A hardy, quick-growing plant, popular as a substitute for lettuce in late fall and early winter. Sow the seed early in the fall in shallow drills, and give plenty of water. Late plants, covered with a light mulch of straw or leaves, will be suitable for use in early spring.

An ounce of seed sows about 100 feet of drill

Large-Seeded. Pkt. 10 cts., oz. 30 cts., ¼lb. 75 cts., lb. \$2.



Green Curled Endive

ENDIVE

Sow the seed any time from early April to the end of July. Plant in shallow drills, about 15 inches apart, and thin the plants to stand 10 to 12 inches apart in the rows. When full grown, tie the tips of the outer leaves together over the center of the plant to blanch the heart, which will take about a week's time.

An ounce of seed will sow 150 feet of row; 3 pounds will sow an acre

Batavian Fullheart. ★ An earlier improved strain of Broad-leaved, with larger leaf and broader, thicker head. Pkt. 10 cts., oz. 20 cts., ¼lb. 50 cts., lb. \$1.50.

Broad-Leaved (Escarolle). The leaves are broad and quite thick and heavy, slightly twisted and scalloped. Medium green in color. Pkt. 10 cts., oz. 20 cts., ¼lb. 50 cts., lb. \$1.50.

Green Curled. ★ The plants are large and handsome, with finely cut and fringed, dark green leaves. Blanches easily to clear white. Pkt. 10 cts., oz. 20 cts., ¼lb. 50 cts., lb. \$1.50.

Large Curled Pancalier. A vigorous grower with thick curled leaves and red ribs. Pkt. 10 cts., oz. 20 cts., ¼lb. 50 cts., lb. \$1.50.

White Curled. Foliage is a little finer than the Green Curled and the inner leaves become creamy white without blanching. Pkt. 10 cts., oz. 20 cts., ¼lb. 50 cts., lb. \$1.50.

EGGPLANT

Start the seed in March, in hotbeds or boxes indoors. Push the seedlings along with plenty of light, heat, and moisture, and when they are about 3 inches high, transplant them to 3 or 4-inch paper pots or dirt-bands. Set out in the garden about June 1, spacing 2 to 2½ feet apart each way. Disturb the roots as little as possible in transplanting, and water freely.

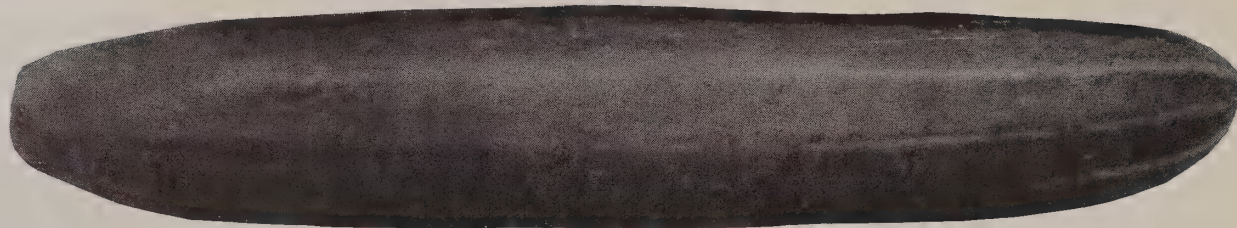
An ounce of seed will produce about 1,000 plants

Black Beauty. ★ A week to ten days earlier than New York Spineless. Fruits are of enormous size, smooth, purplish black, and of fine quality. Pkt. 10 cts., oz. 50 cts., ¼lb. \$1.50, lb. \$5.

New Hampshire Hybrid. Silver Medal, 1939 All-America Selections. Pear-shaped fruit of dark purple. Very early and a heavy producer. For home and market. Pkt. 10 cts., oz. 60 cts., ¼lb. \$1.75, lb. \$6.

New York Improved Spineless. Large, smooth, dark purple fruits of good quality, six to eight fruits to the plant. Pkt. 10 cts., oz. 50 cts., ¼lb. \$1.50, lb. \$5.

★WHEN IN DOUBT, ORDER THE STAR VARIETIES



Longfellow Cucumber

CUCUMBERS

For an extra-early crop, start indoors or in a frame about April 1, sowing the seed in paper pots or dirt-bands or on the bottom of inverted sods, and transplant to the garden the latter part of May, moving sod and all in order to disturb the roots as little as possible. Sow the main crop directly in the garden late in May, and, for a continuous supply, make additional sowings every two weeks up to the middle or latter part of July. Prepare hills 4 to 6 feet apart, digging up the soil to a depth of a foot or more and mixing in plenty of manure or compost. Leave the soil in the hills loose and a little higher than the general level of the garden. Sow eight to ten seeds in each hill and thin out all but the strongest three or four plants. Do not disturb the vines after they have started to spread. If the striped beetles interfere with the development of the young plants, spray them with Pyrox or dust with Hammond's Rotenone Dust. See insecticide pages.

An ounce of seed will plant about fifty hills; 2 pounds of seed will be required for an acre

A and C. Fruits deep green color, slightly tapered at neck and moderately pointed, 8 to 9 inches long; white spined. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 55 cts., lb. \$1.50.

Black Diamond. The earliest White Spine Cucumber. Fruits dark green, 7 to 8 inches long, perfectly smooth, of handsome appearance. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 45 cts., lb. \$1.25.

Cool and Crisp. Early. Fruits about 8 inches long, thick at the middle but tapering off at the ends; light green in color; quality good. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 45 cts., lb. \$1.25.

Davis Perfect. ★ A dependable producer of very long, slender fruits which are rich dark green color and of finest quality. It is a good shipper and holds its deep green color for a long time. Well adapted for greenhouse culture; medium early. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 45 cts., lb. \$1.25.

Early Fortune. Long, slender fruits, deep green in color and exceedingly uniform in size and shape, with crisp, firm flesh and few seeds. Early. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 45 cts., lb. \$1.25.

Extra-Long, or Evergreen White Spine. Fruits 10 to 12 inches long, dark green in color, smooth, and of splendid quality. Good for late crop and for greenhouse forcing. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 45 cts., lb. \$1.25.

Fordhook Famous. The fruits are of giant size, often 15 inches long, thick through and slightly tapered at the ends, dark green in color and with crisp, solid flesh and few seeds. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 45 cts., lb. \$1.25.

Improved Early White Spine. ★ Extra early and prolific. Produces medium-sized, light green fruits of fine quality for slicing or pickles. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 45 cts., lb. \$1.25.

Japanese Climbing. A good Cucumber for the small garden as the vines can be trained on fence or trellis; in fact, it requires some sort of support. Fruits long and thick, crisp, tender and of fine quality. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 65 cts., lb. \$2.

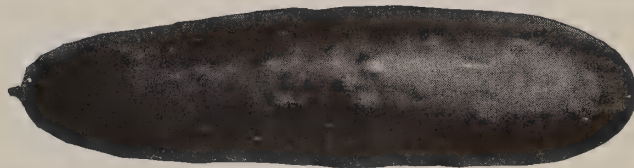
Kirby Staygreen. The earliest White Spine variety. Handsome fruits 7 to 8 inches long, of a beautiful dark green color. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 45 cts., lb. \$1.25.

Klondike. Medium-early. Unusual dark green color which it holds for a long time even under the hottest sun. Fruits of good size and shape. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 45 cts., lb. \$1.25.

Long Green Turkey. ★ Late but very productive. Fruits 12 to 14 inches long, straight and slender, slightly warted, dark green with crisp white flesh. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 45 cts., lb. \$1.25.

Longfellow. ★ Late. Fruits 12 to 15 inches long, dark green, uniform, straight, and attractive, holds color and crispness well after being picked. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 55 cts., lb. \$1.50.

Straight 8. ★ The Cucumbers are straight, 8 to 10 inches long, smooth, and deep green in color. The flesh is crisp, white, and snappy. Seed-cavity small. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 55 cts., lb. \$1.50.



National Pickling Cucumber

Pickling Varieties

Everbearing. Small, very early variety used for early pickles. By keeping the fruits picked it will continue to bear throughout the growing season. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 45 cts., lb. \$1.25.

Extra-Long Jersey Pickling. ★ The fruits are slender and tapering, growing 6 inches long, medium green in color. Extremely prolific. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 45 cts., lb. \$1.25.

Green Prolific, or Boston Pickling. For small pickles. Produces short, thick, bright green fruits, smooth and symmetrical. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 45 cts., lb. \$1.25.

Heinz Pickle. A dependable plant that bears excellent crops of well-formed fruits when other varieties fail. The Cucumbers are blunt at both ends, deep russet-brown, and get large when mature. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 45 cts., lb. \$1.25.

National Pickling. ★ Early, high-yielding variety especially bred for pickling in the small sizes. Fruits deep green, straight, symmetrical, blunt-ended, but not chunky. Pack without waste space. Make firm, crisp pickles. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 55 cts., lb. \$1.50.

West India Gherkin, or Bur. Used for pickles. The vines are luxuriant, bearing quantities of small, nearly round fruits, light green and covered with spines. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 65 cts., lb. \$2.

DANDELION

If the leaves are tied together, the center of the plant will blanch as white and clear as endive. Sow the seed early in shallow drills, in rich soil, and thin the plants to stand about 1 foot apart.

An ounce of seed will sow about 100 feet of drill

Improved French. Pkt. 20 cts., oz. 75 cts., $\frac{1}{4}$ lb. \$2.25, lb. \$8.



Davis Perfect Cucumber

HERBS

Grandmother's garden always had a little patch of herbs and, doubtless, much of the savoriness of grandmother's cooking as well as the effectiveness of her home remedies was derived from her store of "yarbs." Most of the commoner herbs are perennials, although they last but a few seasons in ordinary situations. Any odd corner will do, provided it is sunny and the soil not too hard or poor. Sow seed in early spring, thinning out as needed.

Anise. Used principally for flavoring and for garnishing. Pkt. 10 cts., $\frac{1}{2}$ oz. 15 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts.

Balm. Used for making a medicinal tea. Pkt. 15 cts., $\frac{1}{2}$ oz. 30 cts., oz. 50 cts., $\frac{1}{4}$ lb. \$1.50.

Basil, Sweet. A highly aromatic herb whose leaves and tops are used for seasonings and, in a limited way, in salads. Pkt. 10 cts., $\frac{1}{2}$ oz. 20 cts., oz. 35 cts.

Basil, Sweet, Small-Leaf. An annual whose small leaves are valued for flavoring soups, etc. Pkt. 10 cts., $\frac{1}{2}$ oz. 20 cts., oz. 35 cts.

Borage. An annual plant that is used freely by bee-keepers. Pkt. 10 cts., $\frac{1}{2}$ oz. 20 cts., oz. 35 cts., $\frac{1}{4}$ lb. \$1.

Caraway. The seeds of this plant are used for culinary purposes, in confectionery and also in medicines. Pkt. 10 cts., $\frac{1}{2}$ oz. 15 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts.

Chives. Used as a substitute for onions in soups and salads. Pkt. 25 cts., $\frac{1}{2}$ oz. 35 cts., oz. 65 cts.

Chervil, Curled. Leaves of Chervil very much resemble those of parsley and are used in a similar way. Pkt. 10 cts., $\frac{1}{2}$ oz. 15 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts.

Coriander. An annual whose seeds are strongly aromatic. Pkt. 10 cts., $\frac{1}{2}$ oz. 15 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts.

Dill. An annual plant, seeds of which are used as a seasoning and also in the preparation of Dill pickles. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.

Fennel, Florence. A very delicious salad vegetable. It can be served like celery or boiled. Pkt. 10 cts., $\frac{1}{2}$ oz. 20 cts., oz. 35 cts., $\frac{1}{4}$ lb. \$1.

Fennel, Sweet. The leaves are finely cut and are used for garnishing. Pkt. 10 cts., $\frac{1}{2}$ oz. 20 cts., oz. 35 cts.

Horehound. Chiefly used for medicinal purposes, as it has strong tonic properties. Pkt. 10 cts., $\frac{1}{2}$ oz. 25 cts., oz. 40 cts.

Lavender. Dried flowers impart a pleasing odor to the contents of linen-chests. Pkt. 15 cts., $\frac{1}{2}$ oz. 35 cts., oz. 65 cts.

Marjoram, Sweet. Pleasingly fragrant and of particular value as a seasoning. Pkt. 10 cts., $\frac{1}{2}$ oz. 20 cts., oz. 35 cts., $\frac{1}{4}$ lb. \$1.

Peppermint. A perennial used for flavoring and for its pungent oil. Pkt. 25 cts.

Rue. A medicinal plant of extremely pungent taste. Pkt. 10 cts., $\frac{1}{2}$ oz. 30 cts., oz. 50 cts.

Saffron. Cultivated for medicinal purposes. Pkt. 10 cts., $\frac{1}{2}$ oz. 20 cts., oz. 35 cts., $\frac{1}{4}$ lb. \$1.

Sage. An old familiar herb with a pungent odor. Pkt. 10 cts., $\frac{1}{2}$ oz. 30 cts., oz. 55 cts., $\frac{1}{4}$ lb. \$1.75.

Savory, Summer. Dried foliage used for flavoring during the winter months. Pkt. 10 cts., $\frac{1}{2}$ oz. 20 cts., oz. 35 cts., $\frac{1}{4}$ lb. \$1.

Tansy. A 3-foot perennial with strongly scented yellow flowers. Pkt. 15 cts., $\frac{1}{2}$ oz. 40 cts., oz. 75 cts.

Tarragon. A perennial used for flavoring. 2 ft. Pkt. 10 cts.

Thyme. The leaves and young branches are used for seasoning. Pkt. 10 cts., $\frac{1}{2}$ oz. 30 cts., oz. 50 cts., $\frac{1}{4}$ lb. \$1.50.

Wormwood. Has medicinal qualities. Pkt. 10 cts., $\frac{1}{2}$ oz. 20 cts., oz. 35 cts.

HORSE-RADISH ROOTS

Maliner Kren. The largest and most vigorous variety. Plant in early spring in rich, moist soil. Will produce a good crop in one season. Roots, 45 cts. per doz., \$2.25 per 100, \$15 per 1,000.



Sweet Marjoram



Dwarf Curled Scotch Kale

KALE (Borecole)

Makes delicious "greens" for fall and early spring use. For the fall crop, sow seed in May in shallow drills and thin or transplant to stand about 2 feet apart each way. Cultivate like cabbage. Light frosts will not injure Kale but will improve its flavor.

*An ounce will sow about 300 feet of drill;
4 pounds will sow an acre*

Dwarf Blue Scotch. ★ Dwarf, compact plants with finely curled bluish green leaves. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 45 cts., lb. \$1.25.

Dwarf Curled Scotch. ★ Extremely hardy and fine for early winter use. Grows 15 to 18 inches high and produces a heavy crop of beautifully curled, bright green leaves, tender and of fine flavor. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 45 cts., lb. \$1.25.

Dwarf German. Low and compact in growth, with finely curled, yellowish green leaves. Nice for garnishing. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 35 cts., lb. 90 cts.

Moss Curled. A more compact, curlier variety of Scotch Kale, making a handsome appearance in market and of high culinary quality. We recommend it. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 45 cts., lb. \$1.25.

Tall Curled Scotch. Like the dwarf form but grows about 2½ feet high. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 45 cts., lb. \$1.25.

KOHLRABI

Sometimes called Turnip-Rooted Cabbage. Sow the seed in shallow drills in April, or for extra-early crop start in the hotbed in March. Thin or transplant the plants about 6 inches apart. Kohlrabi grows rapidly and should be used when about half grown, 2 to 2½ inches in diameter. For a continuous supply make sowings every ten days up to the middle of July.

An ounce of seed will sow about 250 feet of drill

Early Large Purple. A little later and larger than the White Vienna, and a reliable sort. Skin purple; flesh white. Pkt. 10 cts., oz. 35 cts., $\frac{1}{4}$ lb. 85 cts., lb. \$2.50.

Early White Vienna. ★ The quickest growing and most popular kind for table use. Leaves few and small; bulbs of medium size with white skin and flesh, tender and of delicate flavor. Pkt. 10 cts., oz. 35 cts., $\frac{1}{4}$ lb. 85 cts., lb. \$2.50.

Large Green. Generally used for stock-feeding. Produces large bulbs with greenish white skin; rather tough when full grown but suitable for table use when small. Pkt. 10 cts., oz. 30 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.

★ WHEN IN DOUBT, ORDER THE STAR VARIETIES

LETTUCE

By starting seed for the first crop in the hotbed or in flats in the house in February or early March, and by carefully choosing varieties which will furnish a succession of crops in the garden, one may have fresh Lettuce for the table from May to November. Make the first sowing outdoors as soon as the ground can be put in shape, making the seed-bed as fine and mellow as possible. Scatter the seed in shallow furrows at least 15 inches apart, and cover lightly. As soon as the plants are big enough, thin them out to stand 3 to 4 inches apart. Then, when they begin to touch each other in the row, use alternate plants, leaving them 8 to 12 inches apart. Cultivate constantly.

Loose-leaved Varieties

Black-Seeded Simpson. ★ The plants are large, with broad, beautifully crumpled and frilled leaves, light green in color and of good quality. Stands more heat than others of its class. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 45 cts., lb. \$1.25.

Chicken. A hardy, tall-growing, non-heading, dark green variety, producing the largest amount of leaves of any lettuce. Makes excellent feed for poultry and rabbit. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.

Early Curled Simpson. Early, medium large, with yellowish green, crumpled and frilled leaves of excellent quality. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.25.

Golden Curled. A handsome, loose-heading Lettuce with greenish yellow, crinkled and frilled leaves. Medium size; crisp and tender. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.

Grand Rapids. ★ An extremely early variety good for first spring crop in the garden; also grown in greenhouses for winter market. The plants are large, with bright green, curled and crinkled leaves. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.25.

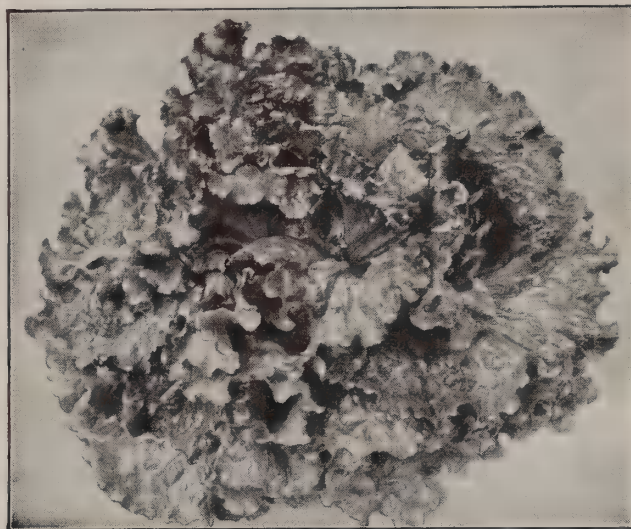
Ohio Grand Rapids. Like Grand Rapids except that the foliage is darker green, not so tender and will stand more abuse in handling. One of the best forcing varieties. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.

Prizehead. A quick-growing sort with broad, crumpled, frilled, green leaves, tinged red on outside; crisp and sweet. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.25.

Heading Varieties

Big Boston. ★ Large, compact heads of rich buttery quality, but will not ordinarily "head up" for the home-gardener unless it is started indoors or sown very early so as to mature before warm weather. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.

Brown Dutch. Very hardy. Head medium large, moderately firm, dark green, overlaid with bronze-red, yellowish inside, and of good quality. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.



Black-seeded Simpson Lettuce

HEADING VARIETIES, continued

Crisp-As-Ice. Makes a solid head of medium size. Unusually hardy, it is desirable for fall sowing. The outer leaves are dark bronzy green, crumpled and heavy in texture; inner leaves creamy yellow, crisp and sweet. Pkt. 10 cts., oz. 35 cts., $\frac{1}{4}$ lb. 90 cts., lb. \$2.50.

Iceberg. Outer leaves light green, tinged with brown at the edges; inner leaves white, crisp, firm and sweet. Popular both with market gardeners and for the home garden. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.

Imperial 44. An Iceberg type particularly adapted to eastern conditions. The heads are solid and quite free from tipburn and other bothers. Pkt. 10 cts., oz. 35 cts., $\frac{1}{4}$ lb. 90c., lb. \$2.50.

Improved Hanson. ★ The plants are of good size; outer leaves medium green, somewhat crinkled; inner leaves blanched white. A dependable summer Lettuce. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 45 cts., lb. \$1.25.

May King. An early Butterhead Lettuce of superb quality, and an ideal sort for early spring planting. Solid heads of medium size, with light green outer leaves and rich golden yellow hearts. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.

New York, or Wonderful. ★ It grows slowly but makes a fine heavy head and remains in prime condition for several weeks. The outer leaves are dark green; the inner blanch to creamy white. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.

White Boston. ★ Head of medium size and compact, with creamy yellow heart. Excellent quality. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.

White Paris Cos, or Romaine. Cos Lettuce can be grown in the hottest weather and, when properly blanched, it is crisp, tender, and of excellent flavor. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.

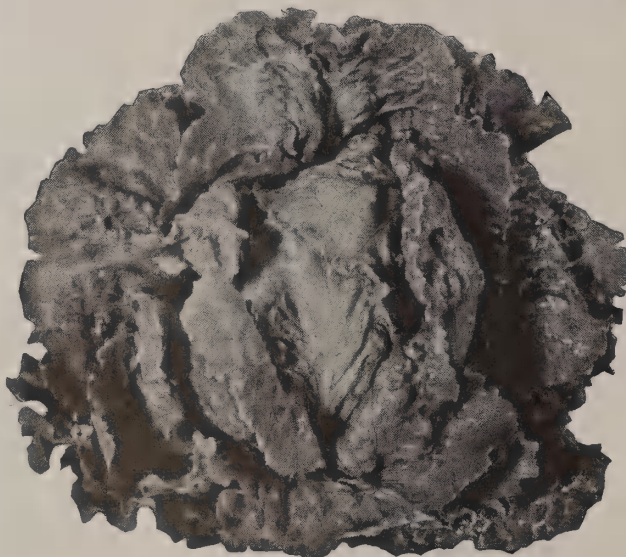
LEEK

Sow the seed in shallow drills early in the spring and when the plants are about 5 inches high, transplant them 6 to 8 inches apart in rows, and cultivate frequently. At the time of transplanting it is a good plan to cut back the plants about a third of their height. The stalks are best when blanched by drawing earth up around them.

An ounce of seed will sow 150 feet of row; 4 pounds will produce sufficient plants for an acre

Large London Flag. The hardiest and most generally cultivated variety. Broad stalks of strong flavor. Pkt. 10 cts., oz. 50 cts., $\frac{1}{4}$ lb. \$1.25, lb. \$4.

Musselburg. Grows larger and is milder in flavor than the preceding. Pkt. 10 cts., oz. 50 cts., $\frac{1}{4}$ lb. \$1.25, lb. \$4.



New York or Wonderful Lettuce

★ WHEN IN DOUBT, ORDER THE STAR VARIETIES

MUSKMELON or Cantaloupe

Melons grow best in a light, warm, well-enriched soil. Since they cannot be sown outdoors until warm weather, and require a long growing season, it is a good plan, in this part of the country, to start the seed in a hotbed or box indoors, using inverted sods or dirt-bands, as recommended for early cucumbers. Plant them in the garden, in hills 5 to 6 feet apart, digging the soil to a depth of a foot and mixing in plenty of manure or fertilizer with the bottom soil. No more than three or four strong plants should be left in each hill.

*An ounce of seed will plant about 50 hills;
2 to 3 pounds will plant an acre*

Emerald Gem. ★ An early, prolific melon. The fruits are small, decidedly flattened and deeply ribbed; the skin is dark green and the flesh is unusually deep and solid, bright orange in color clear to the rind, and of remarkably fine quality. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.

Extra-Early Hackensack. A large, round melon, slightly flattened at the ends. The skin is ribbed and netted; the flesh is thick, light green in color, and of good quality. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.

Honey Dew. The fruits are very large, with thin, hard, smooth, pale green rind and thick green flesh which remains firm and crisp for a long time. Requires a long growing season. Pkt. 10 cts., oz. 25 cts., $\frac{1}{4}$ lb. 75 cts., lb. \$2.

Imperial. ★ Netted yellow fruit with orange flesh. A fine cropper, even in hot, dry seasons. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.

Osage, or Miller's Cream. The fruits are large, slightly elongated, with lightly netted dark green skin and thick, firm, orange flesh of fine flavor. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.

Rocky Ford. The fruits are medium small, oval in shape, slightly ribbed and covered with a coarse, gray netting. Flesh green and remarkably sweet. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.

Tip-Top. ★ Probably the most dependable melon for this region. Medium early and productive, bearing large, round, ribbed and netted fruits with thick, sweet, orange flesh. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.

WATERMELON

In general, Watermelons require the same treatment as muskmelons. Start the plants in a hotbed, if possible, to save time, for they require a long growing season. It is not safe to sow seed outdoors until the last of May. Prepare the hills carefully, spacing them 8 to 10 feet apart and digging them deep, mixing in each a couple of shovelfuls of manure or a little commercial fertilizer. To protect the seedlings as much as possible, sprinkle them with arsenate of lead powder or tobacco dust. Water freely in dry spells.

An ounce will plant about 20 hills; 4 pounds will plant an acre

Kleckley Sweets. The fruits grow about 20 inches long and 10 inches in diameter, with thin green rind and bright scarlet flesh. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.

Pride of Muscatine. ★ Wilt-resistant. Flesh light pink, sweet, and good. In size, general form, and color of the skin, it resembles Kleckley Sweets. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.

Sweetheart. ★ Large, heavy fruits, nearly round, with a thick, mottled light and dark green rind and firm red flesh. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.

Tom Watson. Fruits 24 inches long and about 12 inches in diameter, with a thin, tough, mottled green rind and rich red flesh of good quality. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.

GARDEN GUIDE

The most popular general garden handbook ever published.
576 pages, 300 illustrations. \$2.



Emerald Gem Muskmelons

CITRON

A form of melon used only for preserving, as the flesh is not edible when raw. Citrons are grown in the same way as watermelons; they are prolific and not so particular as to soil. Home-preserved Citron is much superior to that handled in the stores in a dried or candied form.

Green-Seeded. Also called "Colorado Preserving." Fruits large and oblong. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.

Red-Seeded. Flesh firm, with comparatively few seeds. Fruits round. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.

MUSTARD

The young, tender leaves make piquant salads and are delicious as well as healthful as boiled "greens." Make frequent sowings during the spring months, commencing as soon as the ground can be prepared, in shallow drills 12 to 15 inches apart. Thin out to 10 inches between plants. Mustard can also be forced in frames or in the greenhouse during winter.

An ounce of seed will sow about 75 feet of drill

Fordhook Fancy. A dark green variety of robust growth, more curled on the edges than any other sort. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 25 cts., lb. 75 cts.

Southern Giant Long Standing. ★ The plants grow 2 to 3 feet high, producing quantities of broad, succulent leaves which are handsomely curled and fringed. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 25 cts., lb. 75 cts.

White Chinese. An improved form of the common White Mustard. Leaves broad and smooth, sweet and pungent in flavor. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 25 cts., lb. 75 cts.

OKRA or GUMBO

Grown for its seed-pods, which are pickled when young, before they get tough, and used for flavoring and thickening soups. Sow late in May, in drills about an inch deep and $2\frac{1}{2}$ feet apart and thin out to about 1 foot apart in the row. For an early crop, start seed in the hotbed late in March.

*One ounce will sow about 25 feet of row;
20 pounds will sow an acre*

Dwarf Prolific. Early and, as the name implies, low in growth and productive. Pods of medium size; light green. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 25 cts., lb. 75 cts.

Long Green. ★ A tall-growing variety which bears quantities of deep green pods that average 4 to 5 inches in length at the edible stage. Slow to ripen. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 25 cts., lb. 75 cts.



Yellow Globe Danvers Onions

ONION

Small Onions from Seed. Easily grown from seed sown in fine, well-prepared soil early in the spring, the seed covered with a little fine soil pressed down firmly above it. When the seedlings are 3 to 4 inches high, thin them out to stand about 2 inches apart.

Large Onions from Seed. If possible sow seed in hotbeds early in February, thinning the seedlings enough to prevent crowding, and transplanting to the open ground early in May, spacing them 4 to 6 inches apart, depending on variety. If hotbeds are not available, sow the seed in the garden as early as the soil can be put in shape. Thin promptly.

*An ounce of seed will sow about 100 feet of row;
5 to 6 pounds will sow an acre*

Ailsa Craig. One of the largest Onions grown. Globular in form, with pale straw-colored skin and crisp white flesh, very mild in flavor. A heavy cropper and an excellent keeper. Pkt. 10 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1, lb. \$3.

Large Red Wethersfield. Similar in shape and color to Extra-Early Red, but larger and about two weeks later. Productive and an excellent keeper. Pkt. 10 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1, lb. \$3.

Prizetaker. ★ A fine selection of the giant Spanish Onion, which will, if planted early, produce bulbs 4 inches or more in diameter. It makes handsome, uniform, globe-shaped bulbs with thin, pale yellow skin and mild, sweet, white flesh. Pkt. 10 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1.10, lb. \$3.50.

Southport White Globe. ★ The largest and handsomest of the white Onions, also the best keeper. The bulbs are uniformly globe-shaped with pure white skin and fine-grained, solid flesh of sweet, mild flavor. Pkt. 10 cts., oz. 50 cts., $\frac{1}{4}$ lb. \$1.25, lb. \$4.

White Bunching. ★ A very quick-growing Onion of mild flavor, fine for early spring use. Good size; skin and flesh pure white. Pkt. 10 cts., oz. 50 cts., $\frac{1}{4}$ lb. \$1.25, lb. \$4.

White Portugal, or Silverskin. Full-grown bulbs are large and flat; not a good keeper but extra-fine in quality. If grown for young pickling Onions, sow the seed at the rate of 25 pounds per acre. Pkt. 10 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1.10, lb. \$3.50.

Yellow Danvers Flat. Flat bulbs of good size, with thin necks ripening down hard and keeping well. Skin is straw-yellow; flesh white, fine grained and mild. Medium early. Pkt. 10 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1, lb. \$3.

Yellow Dutch, or Strasburg. Early; medium size and flat in shape; quality good. Pkt. 10 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1, lb. \$3.

Yellow Globe Danvers. ★ Productive and medium early; bulbs large, solid, nearly globe-shaped, with yellowish brown skin and pure white flesh, crisp, sweet, and mild in flavor. Pkt. 10 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1.10, lb. \$3.50.

ONION SETS

By starting with sets, small green Onions can be produced very early and large Onions can be harvested about August 1. Plant sets as soon as the ground is ready; push them into the soil but do not cover them over, allowing 2 to 4 inches of space between, depending on whether small or large Onions are wanted.

Yellow. Qt. 15 cts., pk. \$1, bus. \$3.

White. Qt. 20 cts., pk. \$1.10, bus. \$3.25.

Potato Onion Sets. Qt. 40 cts., pk. \$2.25.

Garlic Sets or Bulbs. Qt. 50 cts., pk. \$3.

Ask for special quotation on large quantities

PARSLEY

Sow the seed as early in the spring as possible, half an inch deep. The seed is very slow to germinate, sometimes requiring six to eight weeks. Soaking it in lukewarm water for a few hours before sowing will help to hasten it. Thin to stand about 4 inches apart. Parsley beds may be carried over winter in a frame or by mulching with leaves or straw.

An ounce of seed will sow 150 feet of drill; 8 pounds will sow an acre

Champion Moss Curled. Can be cut the year round. Leaves attractively crimped and curled. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 35 cts., lb. 85 cts.

Double-Curled. ★ Bright deep green curled and fringed leaves. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 35 cts., lb. 85 cts.

Hamburg Turnip-Rooted. ★ Grown for its roots, which resemble short, thick parsnips and are highly flavored; useful in soups and stews. Grow like carrots. Can be stored for winter use. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 35 cts., lb. 85 cts.

Paramount. A new and improved triple-curved variety. Unusually rich dark green foliage tightly curled. Ideally suited for home and market gardens. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 35 cts., lb. 85 cts.

Plain or Single. ★ The leaves are deeply cut but not curled. Stronger flavor than the curled, and preferred for soups, etc. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 35 cts., lb. 85 cts.

PARSNIP

Prepare the ground as early as it can be worked and sow the seed half an inch deep, and when the plants are well up thin to 6 inches apart. The roots mature in the fall and, being perfectly hardy, may be left in the ground all winter, to be dug as needed. Their flavor is improved by freezing.

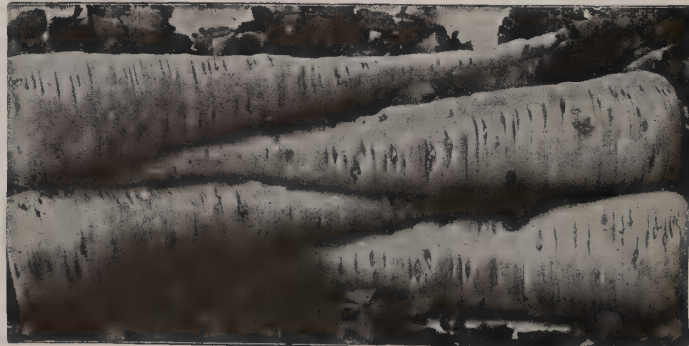
An ounce of seed will sow 150 feet of row; 8 pounds will sow an acre

Guernsey. Thicker at the top and not quite so long as some; consequently, a better variety to grow on shallow soils. Good quality. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 45 cts., lb. \$1.25.

Hollow Crown. ★ Long, smooth roots with white skin and fine-grained flesh. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 45 cts., lb. \$1.25.

Maltese Half-Long. An early variety of particularly fine quality. Roots rather short and thick. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 45 cts., lb. \$1.25.

White Lisbon. The largest and most handsome variety. Fine quality. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 45 cts., lb. \$1.25.



Hollow Crown Parsnips

★ WHEN IN DOUBT, ORDER THE STAR VARIETIES

PEPPER

Peppers require a moderately rich and light soil, a long growing season, and plenty of warmth at all stages. Grow them like egg-plants, starting the seed indoors or in the hotbed in March, transplanting to pots or dirt-beds when the second or third leaf has developed, and resetting in the garden about June 1. Space the plants 2 to 2½ feet apart.

An ounce of seed will produce about 1,500 plants

Sweet Peppers

California Wonder. ★ Has thicker, firmer, heavier flesh than any other Pepper, and a deliciously sweet spicy flavor with no bite to it. Fruits are brilliant light crimson. Pkt. 10 cts., oz. 50 cts., ¼lb. \$1.25, lb. \$4.

Chinese Giant. The largest of all Peppers, often measuring 5 inches in length and diameter. Late but productive; flesh thick and very mild and sweet; deep red when ripe. Pkt. 10 cts., oz. 65 cts., ¼lb. \$1.75, lb. \$6.

Golden Queen. The largest, most productive, and finest yellow-fruited Pepper. Very heavy, unusually meaty, and strictly mild. Glossy golden yellow skin. Pkt. 10 cts., oz. 65 cts., ¼lb. \$1.75, lb. \$6.

Harris' Early Giant. Large, early variety about 4 inches long by 3 inches through. It is deep green, turning to red, and of sweet, pleasant flavor. Pkt. 10 cts., oz. 50 cts., ¼lb. \$1.25, lb. \$4.

Neapolitan. A solid, mild Pepper 4 inches long by 2 inches in diameter, and tapering irregularly from the shoulder. Glossy red when ripe. Pkt. 10 cts., oz. 50 cts., ¼lb. \$1.25, lb. \$4.

Pimiento. A select strain of the famous Spanish Pepper, the thickest-fleshed and choicest quality variety in cultivation. Pkt. 10 cts., oz. 50 cts., ¼lb. \$1.25, lb. \$4.

Ruby Giant. ★ Thick-fleshed and one of the largest of the early sweet Peppers. Deep green, changing to rich red when ripe. Handsome Pepper of fine quality. Pkt. 10 cts., oz. 50 cts., ¼lb. \$1.25, lb. \$4.

Ruby King. Early and productive. Bright red, averaging 4 inches in length and 3 inches in diameter, tapering to a blunt point. The flesh is quite thick and sweet. Pkt. 10 cts., oz. 40 cts., ¼lb. \$1, lb. \$3.

Squash or Tomato. Sweet as an apple; shaped like a tomato; 2 to 3 inches in diameter. Deep red. Pkt. 10 cts., oz. 50 cts., ¼lb. \$1.25, lb. \$4.

Sweet Spanish. A large, rich scarlet Pepper of exceptionally mild flavor. Pkt. 10 cts., oz. 40 cts., ¼lb. \$1, lb. \$3.

World Beater. ★ Later but larger and a little more blocky in shape than Ruby King; flesh quite thick and sweet; bright scarlet when ripe. Pkt. 10 cts., oz. 50 cts., ¼lb. \$1.25, lb. \$4.

Hot Peppers

Anaheim Chili. Late, hot variety for canning and drying. Fruits 6 to 8 inches long, 1 inch diameter. Pkt. 10 cts., oz. 50 cts., ¼lb. \$1.25, lb. \$4.

Bull Nose. ★ Fruits vivid scarlet when mature; medium in size, square and blunt-pointed. Generally considered a sweet Pepper but the flesh is sometimes quite hot. Pkt. 10 cts., oz. 50 cts., ¼lb. \$1.25, lb. \$4.

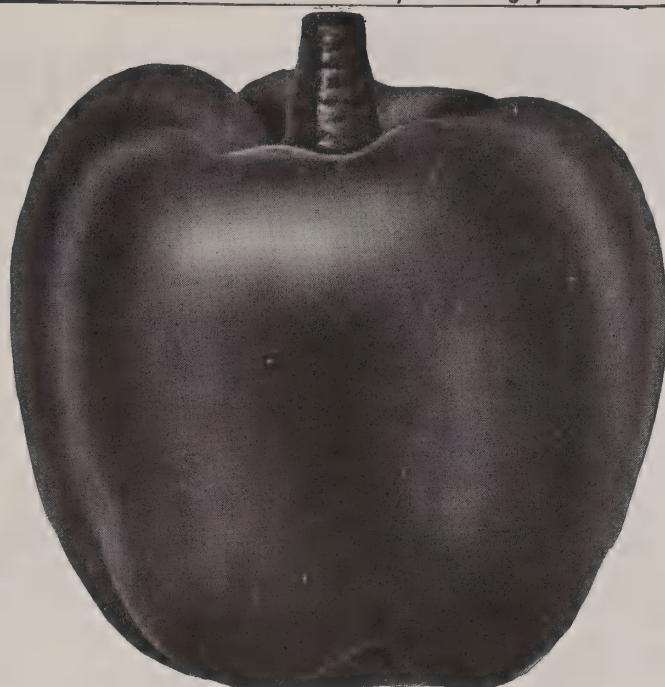
Hungarian Wax. ★ Fruits about 5 inches long and 1½ inches in diameter at stem end, tapering to a point. Waxy yellow and red when ripe. Hot. Pkt. 10 cts., oz. 65 cts., ¼lb. \$1.75, lb. \$6.

Large Red Cherry. Fruits erect, round or cherry-shape and very hot. Pkt. 10 cts., oz. 50 cts., ¼lb. \$1.25, lb. \$4.

Long Red Cayenne. ★ Pods about 6 inches long, slender and pointed, bright scarlet; flesh very hot in taste and pungent in odor. Pkt. 10 cts., oz. 50 cts., ¼lb. \$1.25, lb. \$4.

Small Red Cayenne. Bushy plants, loaded with little, slender pods, about 1½ inches long. Fiery hot. Pkt. 10 cts., oz. 50 cts., ¼lb. \$1.25, lb. \$4.

Squash or Tomato, Hot. Like Squash or Tomato except that it has a much stronger flavor. Pkt. 10 cts., oz. 50 cts., ¼lb. \$1.25, lb. \$4.



California Wonder Pepper

PUMPKIN

The seed should be sown as soon as the ground gets warm, in hills 6 to 8 feet apart, dropping from four to eight seeds in each hill. Pinch back the vines after they get 4 to 5 feet long. Spray the vines with Nicotine Pyrox.

*One ounce of seed will plant about 25 hills;
4 to 5 pounds will plant an acre*

Table Varieties

Large Cheese. Big, flat, handsome Pumpkins with light buff skin and yellow flesh. Prolific. Pkt. 10 cts., oz. 15 cts., ¼lb. 40 cts., lb. \$1.

Livingston Cushaw. Crookneck shape; skin mottled green and white; flesh yellow, fine-grained and sweet. Pkt. 10 cts., oz. 15 cts., ¼lb. 40 cts., lb. \$1.

Mammoth Golden Cushaw. A large crookneck with golden orange skin and deep, rich yellow flesh of the very finest quality. Pkt. 10 cts., oz. 15 cts., ¼lb. 40 cts., lb. \$1.

Small Sugar. ★ Small but productive and of splendid quality. Fruits round with bright orange skin and thick, sweet flesh. Pkt. 10 cts., oz. 15 cts., ¼lb. 40 cts., lb. \$1.

Tennessee Sweet Potato. Sweet, tender, yellow flesh. One of the extra-good pie Pumpkins. Bell-shaped in form. Pkt. 10 cts., oz. 15 cts., ¼lb. 40 cts., lb. \$1.

Winter Luxury. ★ Flesh golden russet color, of extra-fine flavor. Pumpkins medium size, with netted skin. Unusually fine sort. Pkt. 10 cts., oz. 15 cts., ¼lb. 40 cts., lb. \$1.

Stock Feeding Varieties

Connecticut Field. ★ Very productive; fruits oblong, with bright yellow skin and rather coarse flesh. Usually grown for stock. Pkt. 10 cts., oz. 15 cts., ¼lb. 35 cts., lb. 85 cts., 5 lbs. \$3.50.

Kentucky Field. Fruits a little smaller and more round in shape than Mammoth Tours. Flesh of better quality and suitable for table as well as stock. Pkt. 10 cts., oz. 15 cts., ¼lb. 35 cts., lb. 85 cts., 5 lbs. \$3.50.

King of Mammoths. ★ Round, flattened at the ends, with golden orange skin and deep yellow flesh of fair quality. A good keeper. Pkt. 10 cts., oz. 15 cts., ¼lb. 40 cts., lb. \$1.25.

Mammoth Tours. Fruits often weigh 100 pounds or more. Skin mottled green; flesh yellow, rather coarse. Used for stock-feeding. Pkt. 10 cts., oz. 15 cts., ¼lb. 40 cts., lb. \$1.25.

GARDEN PEAS

Peas can be sown very early in the spring, the hardy round-seeded varieties even as early as March 1. For the first sowings use the smooth or round-seeded sorts, but after the first of April change to the wrinkled kinds which, although not so hardy, are much superior in quality. Make additional sowings every two weeks up to July 1 for a continuous supply all summer, but arrange to put the May and June plantings on deep, rich soil where you can conveniently water them during dry weather. The seed should be covered about 2 inches deep, or somewhat deeper in warm, dry weather. The dwarf varieties require no support, but the tall sorts should be provided with bush or wire to support the vines.

INOCULATE THIS
SEED WITH
FARMOGERM

A quart of seed will sow 100 feet of single row; 1 to 1½ bushels will sow an acre

Hardy Round-seeded Peas

Alaska. A very productive smooth Pea, long in favor with market-gardeners and canners. About 2½ feet tall; pods rather small, ripening all at once; Peas small and of medium quality. ½pt. 20 cts., pt. 35 cts., qt. 60 cts., pk. \$3, bus. \$10.

Carter's Eight Weeks. ★ The earliest and one of the hardiest Peas in cultivation. About 16 to 18 inches high with pods of good size for so early a sort. Peas large and of fine quality when young. ½pt. 20 cts., pt. 35 cts., qt. 60 cts., pk. \$3, bus. \$10.

Market Surprise. An extra-early sort, growing 2½ to 3 feet tall. It is about the same season as Alaska, being several days later than Eight Weeks, but the pods are larger and Peas of better quality. ½pt. 20 cts., pt. 35 cts., qt. 60 cts., pk. \$3, bus. \$10.



Potlatch Peas



Laxtonian Peas

Early Wrinkled Peas

Gradus, or Extra-Early Telephone. A grand old standby and a most dependable producer. Vines 3 feet high; pods about 4 inches long, broad and slightly curved, containing 7 to 9 Peas of excellent quality. ½pt. 20 cts., pt. 35 cts., qt. 60 cts., pk. \$3, bus. \$10.

Laxtonian. ★ Of the same general type as Pioneer but a trifle taller and the pods and Peas are darker green. Quality of the best. Pkt. 10 cts., ½pt. 20 cts., pt. 35 cts., qt. 60 cts., pk. \$3, bus. \$10.

Laxton's Progress. ★ This dwarf, early sort comes in a few days earlier than Laxtonian. The Peas are deep green, of excellent flavor, fully wrinkled, and average 9 to 10 to the pod. Grows 18 inches high. ½pt. 20 cts., pt. 35 cts., qt. 60 cts., pk. \$3, bus. \$10.

Little Marvel. ★ A very dwarf, large-podded variety which comes into bearing after Gradus. The vines grow about a foot high and bear big crops of 3¼-inch pods, containing large Peas of excellent flavor. Pkt. 10 cts., ½pt. 20 cts., pt. 35 cts., qt. 60 cts., pk. \$3, bus. \$10.

Nott's Excelsior. Same height and season as Little Marvel but the pods and Peas are smaller. Good quality and very prolific. ½pt. 20 cts., pt. 35 cts., qt. 60 cts., pk. \$3, bus. \$10.

Pioneer. ★ One of the earliest of the wrinkled kinds. The vines grow about 16 inches tall, bearing very large, curved pods, medium green in color, filled with large Peas of fine quality. ½pt. 20 cts., pt. 35 cts., qt. 60 cts., pk. \$3, bus. \$10.

President Wilson. ★ A handsome, second-early, dwarf variety, with exceptionally large pods. Vines very dark green. Pods rich deep green, containing 8 to 9 large, succulent Peas. Excellent for home- and market-garden. ½pt. 20 cts., pt. 35 cts., qt. 60 cts., pk. \$3, bus. \$10.

NOTE: One pint of Peas weighs about 1 lb. and 1 quart about 2 lbs. One bushel of round-seeded varieties weighs 60 lbs. and 1 bus. wrinkled varieties weighs 56 lbs.

EARLY WRINKLED PEAS, continued

Thomas Laxton. As early as Gradus and grows to the same height. The pods are always crammed full of large, tender Peas of most superb quality. Desirable for the market-garden. ½pt. 20 cts., pt. 35 cts., qt. 60 cts., pk. \$3, bus. \$10.

World's Record. The earliest wrinkled Pea. It closely resembles the old standard Gradus, but is a few days earlier and the pods are a shade smaller. ½pt. 20 cts., pt. 35 cts., qt. 60 cts., pk. \$3, bus. \$10.

Main-crop Varieties

Alderman. ★ Vines strong and vigorous; leaves and pods rich dark green; productive; quality the finest; matures with Telephone. ½pt. 20 cts., pt. 35 cts., qt. 60 cts., pk. \$3, bus. \$10.

Dwarf Telephone. Also known as "Daisy." A little earlier than Potlatch, growing 2½ feet tall, with 4½-inch pods, containing 7 or 8 Peas of the very best quality. ½pt. 20 cts., pt. 35 cts., qt. 60 cts., pk. \$3, bus. \$10.

Improved Telephone. Grows 4 feet high, with pods 4½ inches long, light green in color, and filled with 8 to 10 extra-large Peas. Bears several good pickings. Quality fine. ½pt. 20 cts., pt. 35 cts., qt. 60 cts., pk. \$3, bus. \$10.

Mammoth-Podded Sugar. A tall, late, prolific variety which produces big, broad pods, so tender and sweet that the whole pod can be cooked and served like snap beans. If you have not grown sugar-pod Peas, be sure to try them this year. ½pt. 25 cts., pt. 40 cts., qt. 75 cts., pk. \$4.25, bus. \$15.

Potlatch. ★ Dwarf growth and extra-fine quality. Vines luxuriant, 2 feet high; pods deep green, 5 inches long and quite broad; Peas large and tender, often 10 to a pod. ½pt. 20 cts., pt. 35 cts., qt. 60 cts., pk. \$3, bus. \$10.

Prince Edward. Matures with Telephone; vines medium green, pods dark green in color. Highly recommended. ½pt. 20 cts., pt. 35 cts., qt. 60 cts., pk. \$3, bus. \$10.

RADISHES

An extra-early crop can be grown in the hotbed from seed sown in February or early March. Start outdoors as soon as the ground can be put in shape and sow seed of any of the quick-growing round or olive-shaped sorts, not too thick, in drills a half inch deep and 1 to 1½ feet apart. Thin out the seedlings promptly to stand about an inch apart in the rows. Keep them growing fast by hoeing or cultivating every two or three days, otherwise they become pithy and bitter. After putting in seed for the first crop, make additional sowings every ten days to two weeks, but for the later crops, which will ripen in warm weather, use the long varieties. For late summer and fall use, sow the Summer and Winter Radishes which are larger and slower growing but will, unlike the early round Radishes, thrive in hot weather. The Summer Radishes may be sown any time up to August 1. The big Winter Radishes should be sown late in June to attain full size before frost.

*One ounce of seed will sow about 100 feet of drill;
8 to 10 pounds will sow an acre*

Early Radishes

Cincinnati Market. ★ A popular home and market-garden variety. Roots long; skin rosy scarlet; flesh clear white, very brittle and mild. Popular for forcing. Pkt. 10 cts., oz. 15 cts., ¼lb. 40 cts., lb. \$1.

Crimson Giant. ★ The largest of the early, round Radishes, maturing in about four weeks from sowing. Handsome, deep red, globe-shaped roots. Pkt. 10 cts., oz. 15 cts., ¼lb. 40 cts., lb. \$1.

Early Scarlet Globe. ★ Matures medium-sized, elongated, globe-shaped, clear rosy scarlet roots in about four weeks from sowing. Pkt. 10 cts., oz. 15 cts., ¼lb. 40 cts., lb. \$1.

Early Scarlet Turnip. ★ Roots of medium size, round, smooth, bright red; tops small. Pkt. 10 cts., oz. 15 cts., ¼lb. 40 cts., lb. \$1.

Early White-Tip Forcing. For forcing in frames or for early spring planting. Round, bright scarlet with clear white tip; small leaves. Pkt. 10 cts., oz. 15 cts., ¼lb. 40 cts., lb. \$1.

French Breakfast. An oblong or olive-shaped Radish of very fine quality. Early; bright carmine with clear white tip. Pkt. 10 cts., oz. 15 cts., ¼lb. 40 cts., lb. \$1.

Icicle. ★ It grows quickly, making handsome, long, smooth roots with pure white skin and crisp, mild flesh. Reliable for either spring or summer use. Suitable also for forcing. Pkt. 10 cts., oz. 15 cts., ¼lb. 40 cts., lb. \$1.



White Strasburg Radishes



Early Scarlet
Globe Radishes

EARLY RADISHES, continued

Non Plus Ultra. Ready for the table in 20 days from planting. Roots small, uniformly globe-shaped, and smooth, with brilliant scarlet skin and crisp white flesh. Pkt. 10 cts., oz. 15 cts., ¼lb. 40 cts., lb. \$1.

Sparkler. Tops small; roots deep turnip, almost globe-shaped, bright scarlet with pronounced white tip. Pkt. 10 cts., oz. 15 cts., ¼lb. 40 cts., lb. \$1.

Summer Radishes

Chartier, Improved. Intermediate in season between the early and the Summer Radishes. Roots 7 to 8 inches long, bright rose with white tip. Pkt. 10 cts., oz. 15 cts., ¼lb. 40 cts., lb. \$1.

White Lady Finger. Resembles Icicle but grows more slowly and is particularly desirable for late sowings as it retains its fine, crisp quality for a long time even in the hottest weather. Pkt. 10 cts., oz. 15 cts., ¼lb. 40 cts., lb. \$1.

White Strasburg. ★ A long, oval Summer Radish of handsome appearance. Roots about 5 inches; skin and flesh pure white; remains firm and brittle longer than most sorts. Pkt. 10 cts., oz. 15 cts., ¼lb. 40 cts., lb. \$1.

White Stuttgart. ★ A large, late, pure white kind, with almost round or top-shaped roots 4 inches in diameter. Of good quality and a good keeper. Pkt. 10 cts., oz. 15 cts., ¼lb. 40 cts., lb. \$1.

Winter Radishes

Celestial, or White Chinese. ★ Cylindrical in shape, often 8 inches long and 3 inches in diameter; skin and flesh pure white. Of fine quality and a good keeper. Pkt. 10 cts., oz. 15 cts., ¼lb. 40 cts., lb. \$1.

Chinese Rose. Roots 4 to 5 inches long, cylindrical, or larger near the bottom; skin smooth, bright rose in color; flesh white, crisp and tender. Pkt. 10 cts., oz. 15 cts., ¼lb. 40 cts., lb. \$1.

Long Black Spanish. One of the hardiest and best keeping sorts. Roots 7 to 9 inches long and 2 to 3 inches in diameter at the top, tapering to an abrupt point. Skin black, flesh clear white and of fine quality. Pkt. 10 cts., oz. 15 cts., ¼lb. 40 cts., lb. \$1.

Long White Spanish. Exactly like the preceding except in color of skin. Pkt. 10 cts., oz. 15 cts., ¼lb. 40 cts., lb. \$1.

Round Black Spanish. ★ Similar to the Long Black Spanish. Roots nearly round, 3 to 4 inches in diameter. Pkt. 10 cts., oz. 15 cts., ¼lb. 40 cts., lb. \$1.

★ WHEN IN DOUBT, ORDER THE STAR VARIETIES



Summer Green Spinach

SPINACH

Start the first crop in drills an inch deep as soon as the ground can be made ready in the spring, and follow this with successive sowings every ten days up to the middle of May. Make additional sowings in August and September for fall use. Thin the plants to stand about 5 inches apart. To provide Spinach during hot weather, when ordinary varieties do not thrive, make a sowing of the heat-resistant New Zealand Spinach about May 1. For extra-early Spinach in the spring, sow one of the hardy sorts late in September and protect the plants over winter.

*One ounce of seed will sow about 100 feet of drill;
14 to 15 pounds will sow an acre*

Bloomsdale Savoy-Leaved. ★ (Reselected.) Very hardy and consequently most desirable for autumn and early spring use. The plants are upright and vigorous, with thick crumpled leaves. Oz. 15 cts., $\frac{1}{4}$ lb. 30 cts., lb. 85 cts., 5 lbs. \$3.75, 10 lbs. \$7, 25 lbs. \$16.25.

Bloomsdale (Long-Standing). ★ A very early, blight-resistant hardy sort that is much planted for market and canning. Leaves curled and wrinkled. Oz. 15 cts., $\frac{1}{4}$ lb. 30 cts., lb. 85 cts., 5 lbs. \$3.75, 10 lbs. \$7, 25 lbs. \$16.25.

Improved Large Round Thick-Leaved. A hardy, vigorous sort, particularly valuable to market-gardeners for early spring sowing. Oz. 15 cts., $\frac{1}{4}$ lb. 30 cts., lb. 85 cts., 5 lbs. \$3.75, 10 lbs. \$7, 25 lbs. \$16.25.

Juliana. ★ Grows close to the ground and has dark green, crumpled leaves that keep fresh-looking and retain their crispness a long time. Oz. 15 cts., $\frac{1}{4}$ lb. 30 cts., lb. 85 cts., 5 lbs. \$3.75, 10 lbs. \$7, 25 lbs. \$16.25.

King of Denmark. Stands a week or two longer before shooting to seed than any other sort. Leaves are thick, crumpled, and dark green. Oz. 15 cts., $\frac{1}{4}$ lb. 30 cts., lb. 85 cts., 5 lbs. \$3.75, 10 lbs. \$7, 25 lbs. \$16.25.

New Zealand. A distinct type of Spinach which makes large, bushy plants, often 3 feet in diameter. Only the young leaves and tips of the branches are used and the more they are picked, the faster the plant seems to grow. Pkt. 10 cts., oz. 15 cts., $\frac{1}{4}$ lb. 35 cts., lb. \$1, 5 lbs. \$4.50.

Summer Green. ★ Stands in marketable condition a long time. Leaves intensely crumpled, blistered and very uniform, deep glossy green. Oz. 15 cts., $\frac{1}{4}$ lb. 30 cts., lb. 85 cts., 5 lbs. \$3.75, 10 lbs. \$7, 25 lbs. \$16.25.

SPINACH, continued

Triumph or Long Season. Leaves broad, somewhat crumpled, tender, and of fine flavor. For spring and early summer. Oz. 15 cts., $\frac{1}{4}$ lb. 30 cts., lb. 85 cts., 5 lbs. \$3.75, 10 lbs. \$7, 25 lbs. \$16.25.

Victoria. Leaves very large and thick, deep green in color, and of superior quality. Oz. 15 cts., $\frac{1}{4}$ lb. 30 cts., lb. 85 cts., 5 lbs. \$3.75, 10 lbs. \$7, 25 lbs. \$16.25.

Virginia Savoy-Leaved, Blight-Resistant. This is a cool-weather variety that is resistant to "yellows" and mosaic disease, and has distinctly savoyed leaves. Matures in 35 days. Oz. 15 cts., $\frac{1}{4}$ lb. 30 cts., lb. 85 cts., 5 lbs. \$3.75, 10 lbs. \$7, 25 lbs. \$16.25.

SWISS CHARD. See page 7

RHUBARB

It is cheapest to start with seed but only a percentage of the plants grown from seed will be worth saving. Sow early in the spring, in drills an inch deep and a foot apart, and thin the plants to stand about 5 inches apart. The following spring, reset the best plants 3 to 4 feet apart each way. If you start with roots, plant them with the crown about 1 inch below the surface. Give water, if needed, while the plants are producing and dress with manure every year after the cutting season is over.

Victoria. This is the best all-round variety. Productive and comes fairly true from seed. Seed, pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts. **Roots,** 15 cts. each, \$1.50 per doz.; postpaid, \$1.75 per doz.

SALSIFY

Often called "Vegetable Oyster" or "Oyster Plant" on account of its flavor. Sow the seed early, as the plants require a long season to attain full size; cover about an inch deep and thin to 3 inches apart. Roots may be left in the ground all winter and dug as needed.

*One ounce of seed will sow about 50 feet of drill;
10 pounds will sow an acre*

Mammoth Sandwich Island. The best variety. Roots often 10 to 12 inches long, tender, and of delicious flavor. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 65 cts., lb. \$2.



Bloomsdale Savoy-leaved Spinach

★ WHEN IN DOUBT, ORDER THE STAR VARIETIES

SQUASH

Sow the seed in hills, about 4 feet apart each way for the summer varieties and 10 to 12 feet for the late or winter sorts. Do not sow, however, until the soil is warm and dry. The Squash vine borer may cause some trouble during the season but can be discouraged by sprinkling tobacco dust close around the plants. Covering the vines with a little soil at several joints so that they take root there will also help to limit its destructiveness. The black Squash bug can best be kept in check by hand picking; spraying with calcium arsenate is the proper remedy for the striped beetle.

*One ounce of Squash seed will plant 15 to 20 hills;
3 to 5 pounds will plant an acre, according to variety*

Summer Squash

Black Zucchini. Cylindrical and of uniform thickness; rind dark green; flesh firm and of delicate flavor. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.25.

Cocozelle (Italian Vegetable Marrow). Bushy plants, requiring little space, produce many oblong fruits averaging a foot long; green skin, mottled and striped with yellow and darker green. Quality extra-fine. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.

Fordhook. An excellent variety, suitable for both summer and winter use. The fruits are oblong, 8 to 10 inches long, with thin, light yellow skin and thick, straw-colored flesh. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.25.

Mammoth White Bush. ★ One of the earliest. Compact in growth and prolific, with round, ivory-white fruits, with scalloped edges. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.25.

Yellow Summer Crookneck. Long, curved fruits with thin, golden yellow, warted skin; sweet, tender flesh. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.25.

Winter Squash

Acorn (Table Queen). ★ A small thin-skinned, greenish black Squash with dry, mealy flesh of wonderful flavor. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.25.

Boston Marrow. A productive late variety, shaped like the well-known Hubbard, with orange skin and thick flesh. A good keeper. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.25.

Golden Hubbard. ★ True Hubbard shape but earlier, a trifle smaller, and the skin is a rich orange-red in color. Flesh deep orange, dry and sweet; an excellent keeper. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.25.

Improved Hubbard. A selection from the old Hubbard, with more vigorous vine and slightly larger fruits. Skin smooth, dark green; flesh deep yellow and of superb quality. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.25.

Warted Hubbard. ★ The skin is heavily warted and very dark green, almost black, in color. The best keeper of the Hubbard type. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.25.



Mammoth White Bush Squash



Golden Hubbard Squash

TOBACCO

For best results, Tobacco requires a rich, mellow soil and careful cultivation. Sow the seed in frames or a fine seed-bed early in April and reset the plants in the open ground late in May or early in June, spacing them 2 feet apart in rows 4 feet apart. Cultivate frequently.

Connecticut Seed-Leaf. One of the hardiest and most popular sorts. Pkt. 10 cts., $\frac{1}{4}$ oz. 25 cts., $\frac{1}{2}$ oz. 40 cts., oz. 75 cts.

Havana. True type; productive and of finest quality. Pkt. 10 cts., $\frac{1}{4}$ oz. 25 cts., $\frac{1}{2}$ oz. 40 cts., oz. 75 cts.



Mushrooms

MUSHROOMS

Anyone who has a cellar or dark room where the temperature can be kept at from 50 to 60 degrees, can grow Mushrooms of surpassing tenderness and flavor. We furnish special printed directions free with each order, or for 25 cents we will send, postpaid, an illustrated booklet on Mushroom culture which gives the latest improved methods of growing as well as full instructions for preparing for market and recipes for cooking.

Spore-Culture Mushroom Spawn, Northern-Grown. Pure and vigorous. In the form of compressed bricks, each of which will plant about 8 square feet of bed. Brick 30 cts., 10 bricks \$2.50, 50 bricks \$11, 100 bricks \$20.



Break O'Day Tomato

TOMATOES

The seed should be sown indoors in late February or March, in shallow boxes or pots placed in a warm, sunny window. As soon as the little plants are strong enough, thin or transplant them to stand 3 to 4 inches apart; then when they are about 3 inches high transfer them to small paper pots or dirt-bands. To secure extra-strong, stocky plants, transfer them again, when 6 to 8 inches tall, to larger pots. When all danger from frost is past, set them out in the garden, spacing them about 4 feet apart each way. To guard against blight, spray the plants with Bordeaux Mixture or Sulfocide two or three times during the season; arsenate of lead will kill the Tomato worms.

*An ounce of seed will produce about 2,000 plants;
4 ounces should give sufficient plants for an acre*

Early Varieties

Asgrow Cardinal. Semi-globular fruits of the Stone type, perfectly smooth, and of a deep scarlet-red color. A meaty variety with small seed-cavity. Large, heavy, prolific vines. Pkt. 10 cts., $\frac{1}{2}$ oz. 35 cts., oz. 60 cts., $\frac{1}{4}$ lb. \$1.75, lb. \$6.

Bonny Best. ★ To follow Earliana or John Baer. It is remarkably productive with large, round, smooth fruits in handsome clusters. Uniform in size and shape, solid, free from cracks, bright scarlet in color. Pkt. 10 cts., $\frac{1}{2}$ oz. 25 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1.25, lb. \$3.50.

Break O'Day. ★ Fruits are of good size, smooth and the quality of fruit is exceptional compared to other early-maturing varieties. Pkt. 10 cts., $\frac{1}{2}$ oz. 30 cts., oz. 50 cts., $\frac{1}{4}$ lb. \$1.50, lb. \$5.

Chalk's Early Jewel. An enormous producer. The fruits are a little larger than Bonny Best, slightly flattened in shape and bright scarlet in color, always solid, with hard, smooth skin. Pkt. 10 cts., $\frac{1}{2}$ oz. 25 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1.25, lb. \$3.50.

Earliana, Spark's. This is the original Earliana Tomato. The plants are compact, with light foliage; the fruits are of good size, bright red, and quite solid. Pkt. 10 cts., $\frac{1}{2}$ oz. 25 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1.25, lb. \$3.50.

Early Detroit. A pink-fruited Tomato. Fruits nearly round, firm, and of fine quality. Pkt. 10 cts., $\frac{1}{2}$ oz. 30 cts., oz. 50 cts., $\frac{1}{4}$ lb. \$1.50, lb. \$5.

John Baer. ★ Early. The fruits are of good size, perfectly smooth, and nearly globe-shaped, with brilliant scarlet skin and firm flesh, entirely free from core and with few seeds. The flavor is mild and deliciously sweet. Pkt. 10 cts., $\frac{1}{2}$ oz. 25 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1.25, lb. \$3.50.

EARLY TOMATOES, continued

June Pink. The best extra-early pink or purplish-colored Tomato, similar to Earliana in earliness and in most other respects except color. Pkt. 10 cts., $\frac{1}{2}$ oz. 30 cts., oz. 50 cts., $\frac{1}{4}$ lb. \$1.50, lb. \$5.

Marhio. Fruit of a very attractive dark rosy pink. A vigorous grower, heavy cropper, wilt-resistant, free from cracks and excellent for fall forcing. Pkt. 15 cts., $\frac{1}{2}$ oz. 30 cts., oz. 50 cts., $\frac{1}{4}$ lb. \$1.50, lb. \$5.

Penn State. An early Tomato with very compact plants. The beautiful rich scarlet Tomatoes are nearly globe-shaped, with dark red flesh and very few seeds. Pkt. 15 cts., $\frac{1}{2}$ oz. 40 cts., oz. 75 cts., $\frac{1}{4}$ lb. \$2.25, lb. \$8.

Pritchard. ★ Early. Fruits scarlet within and without, firm and meaty, with no core and practically no seed-pockets. Outstanding for its remarkable productiveness. Pkt. 10 cts., $\frac{1}{2}$ oz. 25 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1.25, lb. \$3.50.

Scarlet Dawn. A second- or medium-early sort. Very firm, brilliantly colored, globe-shaped fruits. Wilt- and rust-resistant. Pkt. 15 cts., $\frac{1}{2}$ oz. 35 cts., oz. 50 cts., $\frac{1}{4}$ lb. \$1.50, lb. \$5.

Second-Early and Main-Crop Varieties

Beefsteak. ★ Late; purplish pink; vines strong and vigorous; very little seed; large, solid fruit. Pkt. 10 cts., $\frac{1}{2}$ oz. 40 cts., oz. 75 cts., $\frac{1}{4}$ lb. \$2.25, lb. \$8.

Buckeye State. A very large, dark purple Tomato. Late but a heavy cropper. Fruits nearly globe-shaped, always smooth and solid. Pkt. 10 cts., $\frac{1}{2}$ oz. 30 cts., oz. 50 cts., $\frac{1}{4}$ lb. \$1.50, lb. \$5.

Dwarf Champion. Very dwarf and quite early; the fruits are of medium size, round and smooth with purplish pink skin. Pkt. 10 cts., $\frac{1}{2}$ oz. 30 cts., oz. 50 cts., $\frac{1}{4}$ lb. \$1.50, lb. \$5.

Dwarf Stone. Bushy, compact plants, bearing solid bright red fruits. Medium early. Pkt. 10 cts., $\frac{1}{2}$ oz. 30 cts., oz. 50 cts., $\frac{1}{4}$ lb. \$1.50, lb. \$5.

Greater Baltimore. A selection from Stone with all the good qualities of that fine old standby, but comes into bearing a little earlier. Pkt. 10 cts., $\frac{1}{2}$ oz. 25 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1.25, lb. \$3.50.

Greater Marglobe. ★ As a result of extensive breeding work, this strain shows vast improvement over the original Marglobe in size and uniformity of fruits. We recommend it as the finest stock of this variety of Tomato. Pkt. 15 cts., $\frac{1}{2}$ oz. 40 cts., oz. 75 cts., $\frac{1}{4}$ lb. \$2.25, lb. \$8.

Livingston's Globe. ★ Heavy crops of good-sized, uniform, distinctly globe-shaped fruits with smooth, glossy, purplish rose skin. Pkt. 10 cts., $\frac{1}{2}$ oz. 30 cts., oz. 50 cts., $\frac{1}{4}$ lb. \$1.50, lb. \$5.



Rutgers Tomatoes

Second-Early and Main-Crop Tomatoes, continued

Marglobe. ★ The fruits are of medium size, smooth, solid, and deep from stem to blossom end, with an irregular cell structure. In clusters of five to seven. Pkt. 10 cts., ½oz. 25 cts., oz. 40 cts., ¼lb. \$1.25, lb. \$3.50.

Matchless. A main-crop Tomato with bright red, solid fruits of excellent quality. Pkt. 10 cts., ½oz. 25 cts., oz. 40 cts., ¼lb. \$1.25, lb. \$3.50.

Oxheart. A main-crop, pink-fruited variety. Fruits are large, bulging, heavy and solid. In clusters of three to seven. Pkt. 15 cts., ½oz. 40 cts., oz. 75 cts., ¼lb. \$2.25, lb. \$8.

Ponderosa. ★ Enormous fruits, which weigh as high as two pounds apiece. Somewhat irregular in shape but extremely solid and with very few seeds. Purplish pink. Pkt. 10 cts., ½oz. 35 cts., oz. 60 cts., ¼lb. \$1.75, lb. \$6.

Rutgers. ★ A medium-early Tomato with disease-resistant plants. The sparkling red fruits are smooth, almost round, and very solid. Pkt. 15 cts., ½oz. 30 cts., oz. 50 cts., ¼lb. \$1.50, lb. \$5.

Stone. An unusually productive, smooth, bright red Tomato. It is a favorite for canning and a most dependable sort for main crop in both market- and home-gardens. Pkt. 10 cts., ½oz. 25 cts., oz. 40 cts., ¼lb. \$1.25, lb. \$3.50.

Trucker's Favorite. A dependable, late, main-crop, purple sort, bearing large, flattened fruits which are smooth and solid and of fine quality. The vines are not subject to blight. Pkt. 10 cts., ½oz. 30 cts., oz. 50 cts., ¼lb. \$1.50, lb. \$5.

Yellow Varieties

Golden Queen. Good-sized, round, smooth fruits, bright yellow in color, solid and of splendid quality. Pkt. 10 cts., ½oz. 40 cts., oz. 75 cts., ¼lb. \$2.25, lb. \$8.

Yellow Oxheart. Like Oxheart in all respects except that the skin and flesh are a beautiful golden yellow. Pkt. 15 cts., ½oz. 60 cts., oz. \$1, ¼lb. \$3, lb. \$10.

Yellow Plum. The fruits resemble a plum in size and shape but are bright yellow in color. Enormously prolific; in great demand for preserving. Pkt. 10 cts., ½oz. 35 cts., oz. 60 cts., ¼lb. \$2, lb. \$7.

Yellow Ponderosa. Skin clear golden yellow; flesh pale yellow, solid and meaty, mild and sweet. Pkt. 10 cts., ½oz. 40 cts., oz. 75 cts., ¼lb. \$2.25, lb. \$8.



Greater Marglobe Tomato



Purple-Top White Globe Turnip

TURNIP

The main crop is usually sown in July or August, to mature during the fall, but early-season crops can be obtained by sowing the quick-maturing varieties as soon as the ground can be prepared in the spring. Sow the seed thinly and cover with ½ inch of soil. The early sorts should stand 3 to 4 inches apart in the rows and the large main-crop Turnips about 6 inches.

*An ounce of seed will sow about 100 feet of drill;
■ pound will sow an acre*

Cow Horn. Roots shaped rather like a carrot, often over a foot long and 3 inches in diameter. Skin and flesh white. Pkt. 10 cts., oz. 15 cts., ¼lb. 30 cts., lb. 65 cts., 5 lbs. \$3.

Extra-Early White Milan. The quickest growing of the Turnips. The roots are small and flat with pure white skin and flesh; mild and sweet. Pkt. 10 cts., oz. 15 cts., ¼lb. 35 cts., lb. \$1.

Purple-Top Strap-Leaf. ★ The roots are flat and quite large; skin white except for a ring of purple around the top; flesh white, fine-grained and of excellent table quality. Pkt. 10 cts., oz. 15 cts., ¼lb. 30 cts., lb. 65 cts., 5 lbs. \$3.

Purple-Top White Globe. ★ The roots are large, nearly round, white with upper third purple. The flesh is firm and of good quality. Productive and a splendid keeper. Pkt. 10 cts., oz. 15 cts., ¼lb. 30 cts., lb. 75 cts., 5 lbs. \$3.50.

Seventop. A variety widely grown throughout the South in regions of milder winters. Used extensively for winter greens. Pkt. 10 cts., oz. 15 cts., ¼lb. 30 cts., lb. 75 cts.

Yellow Globe. Round, smooth roots of medium size, with light yellow skin and flesh. Pkt. 10 cts., oz. 15 cts., ¼lb. 30 cts., lb. 75 cts.

Rutabaga or Swede Turnip

Rutabagas are grown much like garden Turnips but they require a longer season and attain a larger size. Sow during June or early July and thin out to 8 to 10 inches. Where the summers are temperate an early crop can be grown from spring sowings.

Improved Purple-Top. ★ Large, globular roots. Skin smooth, light yellow with purple top; flesh yellow, firm, and of fine quality. Can be stored in good condition all winter and well into the following summer. Pkt. 10 cts., oz. 15 cts., ¼lb. 30 cts., lb. 75 cts.

Sweet German. A large, globe-shaped variety with white skin and flesh. Fine-grained, solid and sweet. Pkt. 10 cts., oz. 15 cts., ¼lb. 30 cts., lb. 75 cts.

★ WHEN IN DOUBT, ORDER THE STAR VARIETIES

Scott's Flower Seeds



GROWING FLOWERS FROM SEEDS

For best results, use a shallow box filled with light, rich soil not likely to bake or form a crust when the surface dries, and which has been treated with Formaldehyde or Semesan. Tamp firmly, so that the level is about half an inch below the top of the box. Make shallow furrows crossways, about an inch apart. Very fine seeds, like Petunias and Portulacas, need merely marks; large seeds, like Scabiosas, Lupines, and Four-o'Clocks, should have furrows a half-inch deep. Sow the seed thinly in the rows, and label each row. Sift fine soil, mixed with sand, over the seeds, covering them to the soil level. Then press the surface with a board or a brick, and water with a very fine nozzle or sprinkle the surface with a whisk-broom dipped in water. Cover the box with a sheet of glass and newspaper, and set it in a warm position, watching from day to day to see that the surface does not get dry or become soggy.

As soon as the seedlings break through the ground, the newspaper must be removed and the box set where it will receive the largest amount of sunlight. When the first leaves are fully formed, remove the glass or tilt it to admit air; when the seedlings are all up and gathering strength, take off the glass.

Special care will be needed in watering. If too much water is used, the seedlings are likely to damp off; if not enough, they will not grow rapidly.

While the seeds are growing, prepare other boxes into which to transplant them. Fill with light, rich soil and mark the surface into 2-inch squares, and when the seedlings have acquired their second set of leaves, transplant them. They will need shading until they take hold of the ground. After that, give them plenty of light and water until it is warm enough to set them outdoors.

If you have a coldframe, the seedlings may be transferred from the seed-trays to the coldframe instead of into boxes.

Perennials require exactly the same treatment, except that sowing may be delayed until the annuals are out of the way, and the seedlings may be grown on in a temporary nursery until autumn when they must be moved to the beds in which they are to flower next year.

Good results can also be obtained by sowing most annuals outdoors any time from early April to June.

Acroclinium

Annual

Double Large-flowering Hybrids. Beautiful Everlasting Flowers in salmon, apricot, pink, rose and cerise, white and creamy tones with golden centers. For drying, cut as soon as they open. Pkt. 10 cts., $\frac{1}{4}$ oz. 25 cts.

Ageratum - Floss Flower

Annual

Excellent for low borders and edging, and is often used for porch-boxes. Can be sown outdoors in May, but to have blooms earlier start indoors in March.

Blue Perfection. Pretty, deep lavender-blue flowers. Plants grow about 15 inches high. Pkt. 10 cts., $\frac{1}{4}$ oz. 40 cts.

Dwarf Blue Boy. A new variety only about 4 inches high. Very uniform growth, completely covered with bloom in rich shades of blue. Pkt. 10 cts., $\frac{1}{4}$ oz. 75 cts.

Imperial Dwarf Blue. Perfectly formed little plants about 8 inches tall, with flowers of clear blue. Pkt. 10 cts., $\frac{1}{4}$ oz. 75 cts.

Little Blue Star. Tiny plants, not over 5 inches high, covered with masses of bright blue flowers. Pkt. 25 cts., $\frac{1}{4}$ oz. 75 cts.



Alyssum saxatile

Alyssum

Annuals and Perennials

The ever-popular and always satisfactory flower for edging beds or planting in porch-boxes or rockeries. Sow the seed in the open ground any time from early April to June. Blooms all summer.

Lilac Queen. Annual. Dwarf, compact plants rarely 6 inches high. Flowers deep lavender-lilac. A very pretty variety. Pkt. 10 cts., $\frac{1}{4}$ oz. 25 cts., oz. 75 cts.

Little Gem. Annual. A dwarf form which makes dense, round, little bushes about 6 inches high, covered with very white flowers. Pkt. 10 cts., $\frac{1}{4}$ oz. 25 cts., oz. 75 cts.

Saxatile compactum, Blanket of Gold. Perennial. Bushy plants a foot high. Tiny bright yellow flowers in clusters. A good rock-plant. Pkt. 10 cts., $\frac{1}{4}$ oz. 40 cts., oz. \$1.25.

White Carpet. Annual. The name describes it—a carpet of white only 2 to 3 inches high. Pkt. 10 cts., $\frac{1}{4}$ oz. 25 cts., oz. 75 cts.

White Sweet. Annual. The old-fashioned variety. Low-growing and spreading. Sweet-scented, pure white flowers. Pkt. 5 cts., $\frac{1}{4}$ oz. 15 cts., oz. 50 cts.

Amaranthus*Annual*

Start seed in house or hotbed early in spring, or in a special seed-bed outdoors later on and transplant to place where they are to bloom.

Molten Fire. One of the most beautiful foliage plants. Grows 4 feet high and each lateral produces a poinsettia-like tuft of flaming fire. Pkt. 15 cts., $\frac{1}{4}$ oz. 75 cts.

Sunrise. Crimson foliage with a strong tinge of bronze. A cluster of bright scarlet leaves grows at the end of each branch. Extremely showy. Pkt. 25 cts., $\frac{1}{4}$ oz. \$1.

Tricolor. Joseph's Coat. Tall, erect plants with luxuriant foliage gorgeously marked with scarlet, yellow, and green. Pkt. 10 cts., $\frac{1}{4}$ oz. 25 cts., oz. 75 cts.

Aquilegia • Columbine*Perennial*

Favorite border perennials, blooming in May and June and thriving best in moist, partially shaded spots. Sow seed from May to August. Plants require no protection over winter.

Long-spurred Hybrids, Mixed. These are the finest of the Columbines, producing large flowers in a great variety of delightful colors. Pkt. 10 cts., $\frac{1}{4}$ oz. 75 cts., oz. \$2.50.

Long-spurred Hybrids, Mrs. Scott Elliott's Strain, Mixed. From May to midsummer these will give a wonderful show of color. Plants grow about 3 feet high and flower profusely. Mixed colors, pkt. 25 cts., $\frac{1}{4}$ oz. \$1, oz. \$3.50.

Arabis • Rock Cress*Perennial*

Alpina. Mountain Rock-Cress. Excellent rock-garden or edging plant. Foliage gray-green. Flowers white, in early spring. Pkt. 10 cts., $\frac{1}{4}$ oz. 25 cts.

**Molten Fire Amaranthus****Antirrhinum • Snapdragon***Annual*

A free-blooming garden flower of the easiest culture, producing its spikes of lovely flowers all summer and fall.

Sow the seed in April, transplanting, when 2 to 3 inches high, to the garden.

TALL GIANT-FLOWERED. A fine strain for bedding or cutting as the spikes are heavy and long.

Apple Blossom. Soft apple-blossom-pink.

Canary Bird. Brilliant canary-yellow with deeper yellow lip.

Cattleya. Fine spikes of orchid-lavender—a lovely shade.

Copper King. Velvety bronzy copper.

Old-Gold. Rich old-gold, flushed rose.

**Antirrhinum (Snapdragon)**

Orchid. That peculiar shade known by this name.

Purple King. Glowing dark velvety crimson-purple.

Ruby. Rich velvety ruby-red.

Snowflake. Pure white, with yellow lip.

The Rose. Deep rose-pink.

Finest Mixed. A mixture of all the colors.

All Tall Giant-flowered Antirrhinums, pkt. 25 cts., $\frac{1}{4}$ oz. \$1, oz. \$3

HALF-DWARF LARGE-FLOWERING, MIXED. A nice strain for bedding, with heavy spikes of good length for cutting. Good mixture of colors. Pkt. 10 cts., $\frac{1}{4}$ oz. 25 cts., oz. 75 cts.

GIANT-FLOWERED, MAJESTIC TYPE (RUSTPROOF), MIXED. Our new rustproof strain of the Tall Large-flowered type. Try these where rust has been troublesome. A fine mixture of all colors to be found in this type. Pkt. 25 cts., $\frac{1}{4}$ oz. 75 cts., oz. \$2.50.

**Arctotis****Arctotis***Annual*

Its rich and abundant blooming makes it a very desirable plant for cutting.

Giant Hybrids. A brilliant assortment of orange and bronzy red shades, rose, cream, yellow and salmon. Should be started indoors early. Pkt. 25 cts.

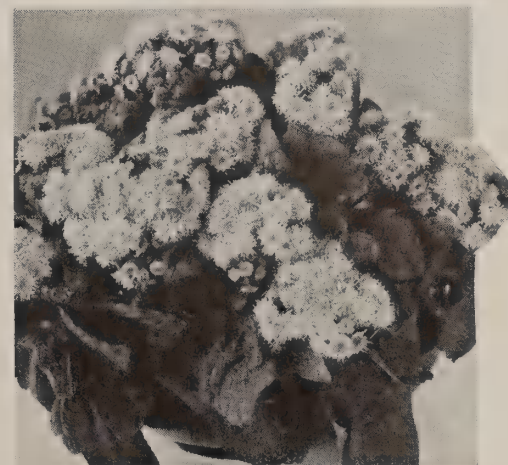
Grandis. Blue-eyed African Daisy. Plants 2 feet high, with silvery white foliage and $2\frac{1}{2}$ -inch, daisy-like, silvery white flowers with sky-blue eyes. Pkt. 10 cts., $\frac{1}{4}$ oz. 25 cts.

Armeria • Sea-Pink*Perennial*

Rock-garden or edging plant making handsome, evergreen, mossy tufts from which rise clustered flowers like clover blossoms.

Cephalotes. Giant Thrift. Rose and White. Pkt. 10 cts., $\frac{1}{4}$ oz. 75 cts.

Lauchiana. Dwarf Thrift. Bright rose. Pkt. 25 cts., $\frac{1}{4}$ oz. \$2.

**Ageratum.** See page 24



Aster, California Giant



Aster, Heart of France

Asters Annual

Asters prefer an open, sunny situation and they respond amazingly to fertilizers and good cultivation. It is advisable to change the location of the Aster-bed each year if you want large flowers and lots of them. For early bloom, start the seed in a window-box or hotbed, in March, giving the little plants plenty of light and water as required, and thinning 3 to 4 inches apart, or transplanting them when a few inches high to small pots. Set them out after danger from frost is past. For solid beds of color, set the plants 8 to 10 inches apart, but if large flowers and long stems are wanted for cutting, plant at least 1 foot apart in rows 1½ to 2 feet apart. The seed may be sown outdoors in early May with good results except that the plants will bloom later.

EARLY-BLOOMING

Queen of the Market. (Wilt-resistant Strain.) Low, bushy plants bearing quantities of large flowers from July on.

White	Lavender
Pink	Purple
Crimson	Mixed Colors

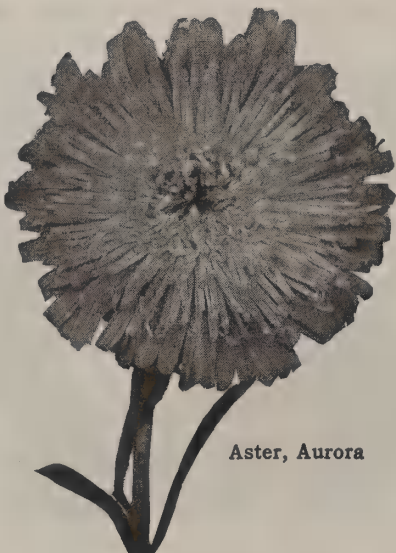
All Queen of the Market Asters, pkt. 10 cts., ¼oz. 50 cts., oz. \$1.50

MIDSEASON BLOOMING

Improved Crego. (Wilt-resistant Strain.) Large flowers, often 5 inches across, with twisted and curled petals, are freely produced on long stems. They bloom just after the early varieties.

Blue Flame	Light Blue
Cattleya (orchid)	Peach Blossom
Crimson	Shell-Pink
Dark Violet	White
Deep Rose	Mixed

All Improved Crego Asters, pkt. 10 cts., ¼oz. 50 cts., oz. \$1.50



Aster, Aurora

GIANTS OF CALIFORNIA IMPROVED. Large, full flowers of the Crego type, with curled and interlaced petals, on long, heavy stems. Strong, upright plants that bloom from late summer until frost.

Carmine-Rose	Light Blue
Dark Purple	Peach Blossom
Light Purple	White
Mixed	

All Giants of California Improved Asters, pkt. 25 cts., ¼oz. 75 cts., oz. \$2.50

CALIFORNIA SUNSHINE, MIXED.

Immense, single flowers, 4 to 5 inches across, with a single row of petals surrounding large yellow quill-like center discs. Branching plants 2 to 3 feet tall. Excellent for cutting. Mixed colors, pkt. 25 cts., ¼oz. \$1, oz. \$3.

GIANT BRANCHING LATE-BLOOMING. (Wilt-resistant Strain.) A wilt-resistant strain of late-blooming Asters. Valuable to finish the season. Long, strong stems carrying large flowers with broad, incurved petals. A great cutting Aster.

Crimson	Deep Rose
Dark Blue	White
Mixed	

All Giant Branching Late-blooming Asters, pkt. 10 cts., ¼oz. 50 cts., oz. \$1.50

MISCELLANEOUS TYPES

AURORA. A free-flowering Aster with large, full flowers, quilled centers and outer band of broad petals. Quite distinct from all other Asters. Plants are of medium height and should be in bloom by Labor Day.

Blue. Light blue, yellow center. Pkt. 25 cts.

Golden Sheaf. (Wilt-resistant.) Double; yellow. Pkt. 25 cts.

Heart of France. (Wilt-resistant.) Medium-sized flowers of rich dark red. Branching plants 1½ to 2 feet high. Blooms in late August. Pkt. 25 cts., ¼oz. 75 cts., oz. \$2.50.

Super Giant, El Monte. This fine Aster received special mention in the 1936 All-America Selections. Large crimson flowers, with interlaced, plume-like petals. Each plant produces 6 to 8 of these huge flowers. Pkt. 25 cts., ¼oz. \$1, oz. \$3.



Giant California Sunshine Asters

Asters

Perennial

Michaelmas Daisies. Tall, autumn-flowering Daisies in various shades. **Mixed Colors.** Pkt. 15 cts., ¼oz. 75 cts., oz. \$2.50.

Balloon Vine - Love-in-a-Puff

Annual

A rapid-growing annual climber with dark green leaves and small white flowers, followed by curious balloon-like seed-pods. Pkt. 5 cts., ½oz. 25 cts.

Balsam - Lady's Slipper

Annual

Tall Double, Mixed. Large flowers, resembling camellias, in self colors, as well as spotted and blotched varieties. The seed should either be started inside or sown outdoors late in May when the soil and weather are warm. Pkt. 5 cts., ¼oz. 25 cts., oz. 75 cts.

Begonia

Tender Perennial

The Begonias are great favorites, both as pot-plants in the home in winter and for outdoor bedding during the summer. Seed is fine and must be sown on well-prepared, rich soil in the greenhouse or in shallow boxes placed in a warm, sunny window.

Gracilis, Luminosa. Large bright scarlet flowers. Pkt. 25 cts.

Prima Donna. Light rose-pink flowers. Extra fine. Pkt. 25 cts.

Tuberous-rooted Begonia Bulbs. See page 38.

Bellis - English Daisy

Biennial

Double Giant-flowered, Mixed. Useful for beds and edging, thriving in partial shade or full sun. Will bloom the first year if seed is planted very early under glass but best results are obtained by sowing seed in late summer and carrying over winter in a cold-frame. Fine mixture of colors. Pkt. 10 cts., ¼oz. 60 cts., oz. \$2.



Annual Calliopsis

Calliopsis (Coreopsis)

Tickseed

Annual

Easy to grow, free-blooming, and a favorite for cutting. Especially nice for edging beds or for planting in pots. Sow in April or May and thin to stand 6 to 8 inches apart.

Crimson King. Deep crimson, yellow backs.

Drummond. Golden Wave. Medium tall, covered with bright golden yellow flowers with brown centers.

Golden Ray. Golden yellow.

Tiger Star. Yellow and brown.

Mixed. A variety of colors.

■ Calliopsis, pkt. 10 cts., 1/4oz. 25 cts., oz. 75 cts.

Cannas

Annual

Large-flowered, Dwarf, Mixed. Saved from brilliantly colored varieties, including red, yellow, and various striking combinations. Pkt. 10 cts., 1/4oz. 25 cts., oz. 75 cts.

For Canna Roots, see page 39.

Campanula Medium

Canterbury Bells

Biennial

Lovely, bell-shaped flowers. One of the finest border plants. Sow the seed any time from early June to August, and protect the plants with straw or leaves over winter.

Single Varieties, Mixed. The true "Canterbury Bells." Good mixture of colors. Pkt. 10 cts., 1/4oz. 25 cts., oz. 75 cts.

Calycanthema, Mixed. Cup-and-Saucer. A very pretty double form in a good mixture of colors. Pkt. 15 cts., 1/4oz. 75 cts., oz. \$2.50.



Calendula, Campfire

Calendula - Pot Marigold

Annual

Among the brightest and easiest to grow of all garden annuals. They prefer a sunny location but will thrive on any soil. Sow the seed during April or May and thin the plants to 8 to 10 inches.

Campfire. A vigorous grower with large, brilliant orange flowers having a scarlet sheen and a full yellow center. Pkt. 10 cts., 1/4oz. 25 cts., oz. 75 cts.

Chrysanth (Sunshine). Superb new variety with rich, gleaming yellow flowers like quilled Chrysanthemums. The rays are long and slender, curving inward. Pkt. 10 cts., 1/4oz. 25 cts., oz. 75 cts.

Lemon Queen. Like Orange King but the flowers are clear lemon-yellow. Pkt. 10 cts., 1/4oz. 20 cts., oz. 60 cts.

Orange King. Large, double flowers of deep glowing orange. Pkt. 10 cts., 1/4oz. 20 cts., oz. 60 cts.

Orange Shaggy. Deep orange color, shading lighter at the center of flower. Long, fringed, overlapping petals make the blooms graceful and attractive. Pkt. 10 cts., 1/4oz. 35 cts., oz. \$1.

Radio. A new type. Full flowers with quilled petals; rich glowing orange. Pkt. 10 cts., 1/4oz. 25 cts., oz. 75 cts.

Double Mixed. Pkt. 10 cts., 1/4oz. 20 cts., oz. 60 cts.

Canary-Bird Vine

Tropaeolum peregrinum

Annual

A quick-growing, slender annual vine with light green, fern-like leaves and brilliant yellow flowers. Pkt. 10 cts., 1/4oz. 25 cts., oz. 45 cts.

Carnations

Early Dwarf Double, Mixed. Biennial. Dwarf, erect, free-flowering strain. Extremely hardy. Grows 15 to 18 inches tall. Comes in a wide range of colors. Pkt. 25 cts., 1/4oz. \$1, oz. \$3.

Enfant de Nice, Mixed. Annual. The plants are robust and upright, with long, strong stems and flowers 2 1/2 to 3 inches in diameter. It is the last word in this popular flower. Good mixture of colors. Pkt. 25 cts., 1/4oz. 75 cts.

Grenadin, Cardinal-Red. Perennial. An early-flowering type with large brilliant scarlet blooms. Pkt. 25 cts., 1/4oz. \$1, oz. \$3.

Marguerite, Mixed. Annual. An improved, large-flowering strain. The flowers are very fragrant, and last for a long time when cut. Sow early in May. Pkt. 10 cts., 1/4oz. 60 cts., oz. \$2.



Giant Hyacinth-flowered Candytuft

Candytuft - Iberis

One of the best of all low-growing plants for beds and edging. Sow the seed early in the spring, and when the seedlings are strong enough, thin them to stand 6 to 8 inches apart.

ANNUAL VARIETIES

Giant Empress. Extra-large, pure white flowers. Nice for cutting as well as bedding. Pkt. 10 cts., 1/4oz. 25 cts., oz. 65 cts.

Giant White Hyacinth-flowered. Immense, pure white spikes with large individual bracts. Strong plants. An improved florists' variety for cutting or pot-culture. Pkt. 10 cts., 1/4oz. 25 cts., oz. 65 cts.

Umbellata. Blooms quickly from seed. The flowers are in flat clusters and are produced for many weeks.

Lilac
RoseCrimson
Mixed

Each, pkt. 10 cts., 1/4oz. 25 cts., oz. 65 cts.

PERENNIAL VARIETIES

Gibraltarica Hybrids. A compact form with lilac flowers. Pkt. 10 cts., 1/4oz. 35 cts., oz. \$1.

Sempervirens. Perennial or Evergreen Candytuft. Bears pure white flowers in the spring, and the leaves are dark glossy green the year round. Fine for edging. Pkt. 15 cts., 1/4oz. 75 cts., oz. \$2.50.



Carnation

Cardinal Climber

Annual

A slender, quick-growing vine with exceedingly ornamental, deeply cut leaves, and small, star-shaped flowers of a brilliant cardinal-red, borne in the greatest profusion. Sow after the weather and soil are warm. Pkt. 15 cts., $\frac{1}{4}$ oz. 35 cts., oz. \$1.

Castor-Oil Bean - Ricinus

Annual

Extremely large plants that may be used for ornamental hedges, for the center of beds of cannas, and as individual specimens wherever a tropical effect is wanted. Sow in May.


Zanzibarensis. A giant strain, that sometimes grows 12 feet high. Dark green, bronze, or reddish foliage. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.

Finest Mixed. Many different types, varying in color of leaf, stalks, fruit, etc. All large. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.

Celosia Annual

These make gorgeous beds and are useful also for borders where bright colors and mass effect are desired. The seed should be started indoors in April or sown in well-prepared soil outdoors late in May.

Childsi, Mixed. Chinese Woolflower. A profusion of massive, wool-like flowers in shades of red and pink. The whole plant is a mass of glowing color, resembling an enormous bouquet. Height 3 feet. Sow seed outdoors after danger of frost is past. Finest mixed. Pkt. 10 cts., $\frac{1}{4}$ oz. 50 cts., oz. \$1.50.

 **Royal Velvet.** Honorable Mention, 1939 All-America Selections. Two-foot plants branching freely and bearing a dozen or more medium-sized "combs" of rich fadeless crimson. The "combs" are just the right size for cut-flowers, making a beautiful and different decoration. Pkt. 25 cts.

Cristata, Finest Mixed. Cockscomb. Showy, comb-like heads in a variety of rich colors. Pkt. 10 cts., $\frac{1}{4}$ oz. 50 cts., oz. \$1.50.

CRISTATA PLUMOSA. IMPROVED FEATHER TYPE.

Pride of Castle Gould. Pyramidal growth with large, painted plumes of brilliant red. Fine for either bedding or pot-culture. Pkt. 15 cts., $\frac{1}{4}$ oz. \$1.50.

Scarlet. A brilliant scarlet selection of the lovely feather type. Pkt. 15 cts., $\frac{1}{4}$ oz. \$1.



Celosia Childsi (Woolflower)



Centaurea cyaneus

Centaurea Annual

A family of very popular and easy-to-grow flowers.

CYANUS. Familiarly known as "Cornflower," "Ragged Sailor," or "Bachelor's Button." About 1½ feet tall, thriving in almost any situation and blooming freely for a long season.

Double Blue. Deep blue Cornflower.


Double Maroon. Fine for a mixed bouquet.

Double Rose-Pink. A lovely shade for cutting.

Double White. A pure white Cornflower.

Double, Mixed. A select mixture of many colors.

All above, pkt. 10 cts., $\frac{1}{4}$ oz. 25 cts., oz. 75 cts.

 **Jubilee Gem.** Silver Medal. Plants 12 to 15 inches with double flowers of cornflower-blue. Pkt. 15 cts., $\frac{1}{4}$ oz. 50 cts., oz. \$1.75.

IMPERIALIS. The Giant Sweet Sultan, one of the largest of the Centaurea family and the finest for cut-flowers. The large blooms are borne on long stems and are very fragrant.

Lavender Purple White

Lilac Rose Mixed

All above, pkt. 10 cts., $\frac{1}{4}$ oz. 35 cts., oz. \$1

GYMNOCARPA. Dusty Miller. Grows but a foot high. Excellent for edging beds and borders. Foliage is fern-like and of silvery gray color. Pkt. 10 cts., $\frac{1}{4}$ oz. 35 cts., oz. \$1.

Chrysanthemums

Chrysanthemums thrive in rich soil in any sunny situation and bloom very freely. They require plenty of water.

Coronarium, Double Annual, Mixed. Full-centered flowers in shades of cream, lemon, and gold. Pkt. 10 cts., $\frac{1}{4}$ oz. 35 cts., oz. \$1.

Leucanthemum. Shasta Daisy. Perennial. Hardy plants with lovely white flowers for cutting.

Alaska. Magnificent single flowers of pure white, 5 inches or more in diameter. Pkt. 10 cts., $\frac{1}{4}$ oz. 75 cts., oz. \$2.50.

Alaska, Double. A double form of the above, with beautiful shaggy white flowers. Pkt. 25 cts.

Cerastium

Perennial

Tomentosum. Snow-in-Summer. A perennial rock-plant with white foliage and starry white flowers. Pkt. 10 cts., $\frac{1}{4}$ oz. 50 cts., oz. \$1.50.

Clarkia

Annual

Elegans. An attractive variety that makes loose, shrubby plants 2 to 3 feet high, covered with dainty flowers. Nice for cutting.

Double and Single, Mixed. Pkt. 10 cts., $\frac{1}{4}$ oz. 30 cts., oz. 75 cts.

Cobaea

Annual

Scandens. Cup-and-Saucer Vine. An annual climber that grows quickly and makes a good screen of foliage. The flowers are large and bell-shaped, blue in color. Pkt. 10 cts., $\frac{1}{4}$ oz. 30 cts., oz. 75 cts.

Coleus

Annual

Choice Mixed. Popular bedding plants grown for their ornamental variegated foliage. Sow seed in boxes indoors and transplant to the open late in May. Pkt. 25 cts.

Coreopsis

Perennial

Double Sunburst. Large, golden yellow, fully double flowers 3 to 3½ inches in diameter. A superb cut-flower, or a mass of garden color. Pkt. 15 cts., $\frac{1}{4}$ oz. 35 cts., oz. \$1.

Grandiflora. Easily grown from seed sown any time during late spring or summer and, being perfectly hardy, the plants require no protection in winter and will live for years. Pkt. 10 cts., $\frac{1}{4}$ oz. 25 cts., oz. 75 cts.

Cypress Vine

Annual

Finest Mixed. A graceful, slender climber with very finely cut foliage and bright little flowers which are produced in the greatest profusion. Pkt. 10 cts., $\frac{1}{4}$ oz. 25 cts., oz. 75 cts.



Cerastium tomentosum



Cosmos

Cosmos

Annual

Their free-blooming habit and graceful flowers make the Cosmos one of the most popular flowers for late summer and fall use. Sow seed outdoors about May 1, or, if possible, start the seed indoors in early March.

Early Klondyke, Orange Flare. Gold Medal, 1935 All-America Selections. Deep brilliant orange flowers, borne on long stems. Nice for cutting. Plants 2 to 3 feet high. Pkt. 15 cts., $\frac{1}{4}$ oz. 50 cts., oz. \$1.50.

Extra-Early, Double-crested. An improved strain of the double-flowering form of Cosmos, and while the flowers vary in degree of doubleness, all are beautiful.

Pink Beauty. Soft rosy pink.

Crimson King. Deep rose-crimson.

White Queen. Pure white.

Finest Mixed. All colors.

All Double-crested Cosmos, pkt. 15 cts., $\frac{1}{4}$ oz. 85 cts., oz. \$2.75

Lady Lenox. Blooms enormous, of a most attractive shade of shell-pink. Pkt. 10 cts., $\frac{1}{4}$ oz. 25 cts., oz. 75 cts.

Mammoth Early-flowering, Mixed. Large-flowered strain which blooms early. Best to use for late sowings outdoors. Pkt. 10 cts., $\frac{1}{4}$ oz. 25 cts., oz. 75 cts.

Mammoth Late-flowering, Mixed. Plants 6 to 8 feet, blooming in September. Large flowers 4 to 5 inches across. Pkt. 10 cts., $\frac{1}{4}$ oz. 25 cts., oz. 75 cts.

Sensation. Award of Merit, 1936 All-America Selections. Flowers 4 to 5 inches across, on long stems, from 4-foot plants. Blooms for 10 weeks from sowing. Flowers Pink and White. Pkt. 15 cts., $\frac{1}{4}$ oz. 85 cts., oz. \$3.

Cynoglossum

Chinese Forget-Me-Not

Amabile, Blue Bird. Splendid plants growing $1\frac{1}{2}$ to 2 feet tall and bearing a profusion of bloom from May until frost. The Forget-me-not-like flowers are a fine shade of bright blue and are in nice sprays suitable for cutting. Pkt. 10 cts., $\frac{1}{4}$ oz. 60 cts., oz. \$2.

Didiscus

Annual

Cærulea. Blue Lace Flower. Exquisite, lacelike flower-heads of dainty azure-blue, gracefully borne on long stems. Sow seed in March in hotbed and outdoors in May and June. Pkt. 10 cts., $\frac{1}{4}$ oz. 35 cts., oz. \$1.

Dahlias

Annual

It is easy to raise Dahlias from seed, if started early in spring in hotbed or in a warm window. Set plants out late in May in sunny location, a foot or more apart.

Cactus-flowered, Mixed. Seed saved from the best Cactus type. Pkt. 25 cts.

Double, Finest Mixed. Seed saved from some of the best named sorts. Pkt. 10 cts., $\frac{1}{4}$ oz. 75 cts., oz. \$2.50.

Single, Fine Mixed. Seed saved from select flowers of single varieties. Pkt. 10 cts., $\frac{1}{4}$ oz. 30 cts., oz. \$1.

Delphinium

Perennial Larkspur

The finest of blue flowers for the hardy border are the Perennial Larkspurs. Sow the seed in May or June and transplant about 1 foot apart in early September.

Belladonna. Long, loose spikes of delicate light blue flowers, of supreme value for cutting. Pkt. 25 cts., $\frac{1}{8}$ oz. 75 cts., $\frac{1}{4}$ oz. \$1.25.

Bellamosa. This is a taller, straighter plant than Belladonna, and the flowers are rich clear blue, several shades darker. Pkt. 25 cts., $\frac{1}{8}$ oz. 75 cts., $\frac{1}{4}$ oz. \$1.25.

Blackmore & Langdon Strain, Mixed. Lovely flowers in a wide range of colors. Strong plants with excellent spikes. Pkt. 50 cts.

Cardinale. A native Delphinium with long-spurred brilliant scarlet flowers on 3-foot plants. Pkt. 25 cts., $\frac{1}{8}$ oz. 75 cts., $\frac{1}{4}$ oz. \$1.25.

Kelway's Gold Medal Hybrids. A famous English strain of great size and vigor, producing flowers in all shades of blue. Pkt. 25 cts., $\frac{1}{8}$ oz. 50 cts., $\frac{1}{4}$ oz. 75 cts., oz. \$2.25.

Pacific Giants. See description on page 48.

Mixed Colors. Pkt. 50 cts., $\frac{1}{8}$ oz. \$1.25, $\frac{1}{4}$ oz. \$2, $\frac{1}{2}$ oz. \$3.50, oz. \$6.

Wrexham (Hollyhock Strain). Sturdy plants producing conical spikes of flowers 2 inches or more across, and $2\frac{1}{2}$ to 3 feet long. Colors range from clear light blues and lavenders to shades of deep blue, purple, and mauve. Pkt. 25 cts., $\frac{1}{8}$ oz. \$1.25, $\frac{1}{4}$ oz. \$2.



Delphiniums



Dianthus Heddwigi

Dianthus

A large family of easily grown flowers loved for their fragrance and all-round usefulness.

Chinensis, Double. China Pink. Annual. All plants 20 inches high, with flowers in clusters, in many bright colors. Free-blooming type. Pkt. 10 cts., $\frac{1}{4}$ oz. 35 cts., oz. \$1.

Deltoides. Maiden Pink. Perennial. A creeping rock-garden plant with deep rose-colored flowers on 8-inch stems in midsummer. Pkt. 15 cts., $\frac{1}{4}$ oz. 75 cts., oz. \$2.50.

Double Mayflower, Mixed. Perennial. Dwarf plants with double flowers in shades of pink. Pkt. 15 cts., $\frac{1}{4}$ oz. 75 cts., oz. \$2.50.

Heddwigi. Japanese Pinks. Annual. Dwarf, compact plants 10 to 12 inches tall, with large, spectacular flowers, fine for cutting as well as making a grand garden display.

Double, Fireball. Crimson.

Double, Mourning Cloak. Blackish maroon, margined white.

Double, Violet Queen. Violet.

Double, Mixed. All colors.

All Heddwigi, pkt. 10 cts., $\frac{1}{4}$ oz. 40 cts., oz. \$1.25

Single, Mixed. Pkt. 10 cts., $\frac{1}{4}$ oz. 25 cts., oz. 75 cts.

Plumarius. Garden Grass Pinks. Perennial. The Pheasant-Eye, or Clove Pink should be in every garden. Plants 8 to 10 inches, with grass-like foliage and fragrant, fringed flowers. Sow from April to August.

Single, Mixed. Many beautiful colors. Pkt. 10 cts., $\frac{1}{4}$ oz. 35 cts., oz. \$1.

Digitalis - Foxglove

Biennial

A plant for the back of the border. Spikes of thimble-shaped flowers on plants 3 to 4 feet tall, during June and July. Sow in early summer and transplant in the fall.

Hybrida Lutzii. Magnificent, 4-foot plants with lovely salmon flowers. Pkt. 15 cts., $\frac{1}{4}$ oz. 75 cts.

Isabellina. Fine spikes of yellow blossoms that deepen to chamois. Pkt. 15 cts., $\frac{1}{4}$ oz. 75 cts.

The Shirley, Giant Hybrids. An excellent strain with large flowers ranging in color from white to dark rose, each with throats spotted with crimson, maroon or chocolate. Plants 5 to 7 feet tall, with 4-foot spikes of bloom. Pkt. 15 cts., $\frac{1}{4}$ oz. 75 cts.

Finest Mixed. All types and colors. Pkt. 10 cts., $\frac{1}{4}$ oz. 25 cts., oz. 75 cts.



Dimorphotheca

Dimorphotheca African Daisy

Annual

Dwarf plants, 12 to 15 inches high, with foliage close to the ground. Daisy-like flowers 2 to 3 inches across, with narrow petals. Flowers close toward evening.

Aurantiaca, Mixed. Shades of yellow, orange, and white. Pkt. 10 cts., $\frac{1}{4}$ oz. 35 cts., oz. \$1.

Aurantiaca, Orange, Improved. An improved strain of the original orange variety. Pkt. 10 cts., $\frac{1}{4}$ oz. 35 cts., oz. \$1.

Dolichos • Hyacinth Bean

Annual

Lablab, Mixed. Very pretty annual climber quickly growing 8 to 10 feet and bearing quantities of clustered flowers like pea blossoms, followed by lustrous purple pods. Good mixture of colors. Sow the seed in late May. Pkt. 10 cts., $\frac{1}{2}$ oz. 30 cts.

Eschscholtzia California Poppy

Annual

These hardy little annuals make very bright beds and bloom from June until frost. Flowers resemble single Poppies. Sow in early spring, where they are to bloom.

SPREADING VARIETIES

Aurantiaca. Orange.

Carmine King. Deep carmine.

Chrome Queen. Amber-yellow.

Mikado. Orange-crimson.

The Geisha. Brilliant gold inside, orange-crimson outside, fluted.

All Eschscholtzias, pkt. 10 cts., $\frac{1}{4}$ oz. 35 cts., oz. \$1

Mixed. All colors. Pkt. 10 cts., $\frac{1}{4}$ oz. 20 cts., oz. 60 cts.

ERECT VARIETY

Ramona. Golden bronze, coppery rose outside, frilled and incurved. Pkt. 10 cts., $\frac{1}{4}$ oz. 35 cts., oz. \$1.

Euphorbia

Annual

Variegata. "Snow-on-the-Mountain." Showy plants growing about 2 feet high, with ornamental deep green foliage, bordered and marked with white. Seed should be sown during May. Pkt. 10 cts., $\frac{1}{4}$ oz. 20 cts., oz. 60 cts.



Eschscholtzia, Ramona

Four o'Clock • Mirabilis

Annual

Jalapa, Mixed. "Marvel of Peru." Makes most effective beds and annual hedges. The plants grow about 2 feet tall, bearing quantities of fragrant flowers which open late in the afternoon. Pkt. 5 cts., oz. 15 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.

Gaillardia • Blanket Flower

Extra-good bedding plants, and especially desirable cut-flowers.

Burgundy. Perennial. A new variety with large, wine-colored flowers. Very choice. Pkt. 25 cts., $\frac{1}{4}$ oz. 90 cts., oz. \$3.

Maxima aurea. Perennial. Rich golden yellow flowers with a large red eye. Pkt. 25 cts., $\frac{1}{4}$ oz. 75 cts., oz. \$2.50.

Picta, Mixed. Annual varieties in various colors. Pkt. 10 cts., $\frac{1}{4}$ oz. 25 cts., oz. 75 cts.

The Dazzler. Perennial. Very large flowers of blazing orange-scarlet, illumined by a brilliant yellow edge at the tip of each ray or petal. Pkt. 25 cts., $\frac{1}{4}$ oz. 75 cts., oz. \$2.50.

Geranium

Annual

Fine Mixed. Great favorites for bedding and window-boxes. Seed saved from the choicest varieties. Pkt. 25 cts., $\frac{1}{4}$ oz. \$1, oz. \$3.



Geum, Mrs. Bradshaw



Gaillardia, The Dazzler

Geum • Avens

Perennial

Lady Stratheden. Practically the same plant as Mrs. Bradshaw, except that the flowers are shining golden yellow. Pkt. 10 cts., $\frac{1}{4}$ oz. 75 cts., oz. \$3.

Mrs. Bradshaw. Handsome, fairly dwarf border plant with attractive foliage, and double scarlet flowers with crimped and ruffled petals. Pkt. 10 cts., $\frac{1}{4}$ oz. 75 cts., oz. \$3.

Globe Amaranth

Gomphrena

Annual

Mixed Colors. The plants grow 2 to 3 feet tall, with globe-shaped flowers which may be cut and dried in their natural color for winter bouquets. Pkt. 10 cts., $\frac{1}{4}$ oz. 25 cts., oz. 75 cts.

Godetia • Satin Flower

Annual

The plants are bushy, with attractive foliage, and the flowers are quite large, somewhat resembling single hollyhocks. Godetias make fine pot-plants.

Dwarf Double Azalea-flowered, Mixed. Lovely azalea-like flowers in various brilliant colors. Pkt. 10 cts., $\frac{1}{4}$ oz. 25 cts., oz. 75 cts.

Sybil Sherwood. An upright plant with single flowers of bright salmon-pink. Pkt. 10 cts., $\frac{1}{4}$ oz. 50 cts., oz. \$1.50.

Gourds

Annual

In addition to their interesting fruit, many of which are useful as well as ornamental, the vines have large foliage excellent for covering fences, stumps, trellises, etc. Sow the latter part of May.

Calabash Pipe or Powder-Horn. An intriguing pipe-shaped variety. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts.

Cave-Man's Club. Dark green; knobby; club-shaped. Pkt. 10 cts., oz. 40 cts., $\frac{1}{4}$ lb. \$1.

Dipper. The ripe fruits, cut away and cleaned out, make very serviceable dippers. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts.

Dish-Cloth. Sometimes called Sponge Gourd. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts.

Ornamental, Mixed. Includes a great number of interesting and diverse forms. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts.

*Gypsophila elegans alba grandiflora***Gypsophila • Baby's Breath**

These are largely used in making up bouquets and are also most attractive garden plants.

Elegans alba grandiflora. Annual Baby's Breath. An improved strain with pure white flowers. Pkt. 10 cts., $\frac{1}{4}$ oz. 20 cts., oz. 60 cts.

Paniculata alba, Single. Perennial. Tiny white flowers in airy sprays. Excellent for cutting. Pkt. 10 cts., $\frac{1}{4}$ oz. 25 cts., oz. 75 cts.

Paniculata alba, Double. Fine sprays of little, double, pure white flowers. Dries nicely for winter bouquets. Pkt. 25 cts., $\frac{1}{8}$ oz. \$1.

Repens alba. Perennial. A trailing variety, not over 6 inches high, with white flowers in July and August. Pkt. 10 cts., $\frac{1}{4}$ oz. 50 cts., oz. \$1.50.

Repens rosea. Perennial. Rose-colored variety of the above. Pkt. 10 cts., $\frac{1}{4}$ oz. 50 cts., oz. \$1.50.

Helianthemum • Sun Rose

Perennial

Mutabile, Mixed. Rock-plant of shrubby habit, growing 8 to 12 inches high. Foliage evergreen. Flowers of pastel shades. Pkt. 10 cts., $\frac{1}{4}$ oz. 35 cts., oz. \$1.

Helianthus • Sunflower

Annual

Sow the seed in April or May and give the plants plenty of room. Fine for massive borders and backgrounds.

Dwarf Double Chrysanthemum-flowered. Strong plants, growing 4 to 5 feet high, with many branches bearing big, double flowers like golden chrysanthemums. Pkt. 10 cts., $\frac{1}{4}$ oz. 25 cts., oz. 75 cts.

Mammoth Russian. The common variety and the largest and most productive, growing to a height of 6 to 8 feet. Oz. 10 cts., $\frac{1}{4}$ lb. 20 cts., lb. 50 cts.

Maroon Prince. Single red flowers on 4-foot plants. The best red Sunflower. Pkt. 10 cts., $\frac{1}{4}$ oz. 35 cts., oz. \$1.

Miniature (*H. cucumerifolius*). Single bright yellow flowers, with dark brown centers. Fine for cutting as well as display. Pkt. 10 cts., $\frac{1}{4}$ oz. 25 cts., oz. 75 cts.

Helichrysum • Everlasting

Annual

The best of the "Straw Flowers." To preserve the flowers for permanent bouquets, pick them when half opened and hang them by the stems, head down, to dry in a shady place. Double, bright-colored flowers.

Fireball or Scarlet Goldenball **Salmon Queen Silverball**
Rose Queen **Violet Queen**
Finest Mixed

All Helichrysums, pkt. 10 cts., $\frac{1}{4}$ oz. 25 cts., oz. 75 cts.

Heliotrope

Annual

Choice Mixed Colors. Prized for its delightful fragrance. Can be grown in pots or in the garden. Start the seed indoors in March, or sow outdoors after the soil and weather are warm. Pkt. 15 cts., $\frac{1}{4}$ oz. 75 cts.

Hesperis • Rocket

Perennial

Matronalis. Sweet Rocket. The plants make large clumps 2 to 3 feet high, with showy spikes of red flowers. Pkt. 10 cts., $\frac{1}{4}$ oz. 35 cts., oz. \$1.

Hibiscus • Marsh-Mallow

Perennial

Finest Mixed. Shrubby perennials 4 to 6 feet tall with large foliage and immense, funnel-shaped flowers 6 to 12 inches across. Fine mixture of colors. Pkt. 10 cts., $\frac{1}{4}$ oz. 35 cts., oz. \$1.

Hollyhock

Wherever tall-growing plants can be used these are wonderfully effective, with a charm all their own. A favorite for the old-fashioned garden.

Chater's Double, Mixed. Perennial. An extra-fine strain in many bright colors. Pkt. 10 cts., $\frac{1}{4}$ oz. 60 cts., oz. \$2.

Indian Spring. Annual. Silver Medal, 1939 All-America Selections. Semi-double, frilled pink flowers in 5 months from seed. Plants 4 to 5 feet tall. A splendid novelty. Pkt. 25 cts.

Single, Finest Mixed. Perennial. Lovely single flowers in a wide range of colors. Pkt. 10 cts., $\frac{1}{4}$ oz. 25 cts., oz. 75 cts.



Double Hollyhocks

*Helianthemum mutabile***Honesty • Lunaria**

Biennial

An easily grown plant, about 1 $\frac{1}{2}$ feet high. The blooms may be dried for winter bouquets. Violet or White, pkt. 15 cts., $\frac{1}{4}$ oz. 60 cts., oz. \$2.

Humulus • Japanese Hop

Annual

A very rapid-growing annual vine which, on account of its dense, attractive foliage, is valuable for porch-screens and arbors.

Green-leaved or Variegated-leaved. Pkt. 10 cts., $\frac{1}{4}$ oz. 25 cts., oz. 60 cts.

Hunnemannia • Tulip Poppy

Annual

Sunlite. Semi-double flowers of clear canary-yellow. Very desirable. Grows 1 $\frac{1}{2}$ to 2 feet tall, with many blooms all summer. Pkt. 10 cts., $\frac{1}{4}$ oz. 35 cts., oz. \$1.

Ipomoea • Morning-Glory

Annual

Fine for covering fences and trellises on account of their rapid, luxuriant growth. They bloom freely all summer. The seed may be soaked in warm water over night to hasten germination.

Heavenly Blue Improved. Blue Moonflower. An early strain of this lovely flower. Deep sky-blue flowers of large size from mid-summer until frost. Start seeds under glass, early. Pkt. 15 cts., $\frac{1}{4}$ oz. 35 cts., $\frac{1}{2}$ oz. 60 cts., oz. \$1.

Imperial Japanese, Mixed. Large flowers of various pleasing colors. Sow where they are to bloom as soon as ground gets warm. Pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 50 cts., lb. \$1.50.

Noctiflora. White Moonflower. Large white flowers. Pkt. 10 cts., $\frac{1}{4}$ oz. 20 cts., oz. 50 cts.

Scarlett O'Hara. Gold Medal, 1939 All-America Selections. Large flowers 3 $\frac{1}{2}$ inches across, of bright carmine, are freely produced on vigorous twining vines from early summer until late fall. They stay open longer than most Morning-Glories, often lasting all day. Pkt. 15 cts., $\frac{1}{4}$ oz. 75 cts., $\frac{1}{2}$ oz. \$1.25, oz. \$2.25.

Job's Tears • Coix

Annual

Lacryma. An ornamental grass which grows 2 to 3 feet high and bears large, ivory-white seeds from which it gets its name. The children make necklaces from the hard seeds. Pkt. 10 cts., $\frac{1}{4}$ oz. 20 cts., oz. 50 cts.

Kochia

Annual

Scoparia trichophylla. Summer Cypress; Mexican Firebush. Grows about 2 feet high making beautifully rounded bushes like clipped evergreens. In summer, foliage is bright, light green but in fall the whole plant is a ball of crimson. Sow seed in late May. Pkt. 10 cts., $\frac{1}{4}$ oz. 25 cts., oz. 75 cts.

Lantana

Annual

Dwarf Hybrids, Mixed. Desirable bedding plants, giving a mass of color; also useful in porch-boxes and pots. Flowers are in clusters. Blooms constantly. Pkt. 15 cts., $\frac{1}{4}$ oz. 60 cts., oz. \$1.75.

Larkspur

Annual

Favorite, easy-to-grow annuals, producing their tall spikes very freely for several weeks during summer. They are most effective planted in the border in groups among lower-growing flowers. Sow the seed in April and thin or transplant to stand 8 to 10 inches apart.

GIANT IMPERIAL. A new strain of annual Larkspurs that grows 3 to 4 feet high. Fine well-filled spikes.

Blue Bell. Deep sky-blue.

Blue Spire. Clear violet-blue.

Carmine King. Deep, glowing pink with a fiery sheen, almost scarlet.

Daintiness. Delicate lavender.

Miss California. Brilliant rose-pink.

White King. Pure white.

Mixed. All colors.

All above Larkspurs, pkt. 25 cts., $\frac{1}{4}$ oz. 75 cts.

Pink Perfection. Lovely, long-lasting flowers of clear pink. Pkt. 25 cts.

TALL DOUBLE STOCK-FLOWERED. Plants 3 feet tall, with candelabra-like branches and long spikes closely set with large, double flowers.

Rosamond. A lovely shade of pure bright rose. Pkt. 25 cts., $\frac{1}{4}$ oz. \$1.

Fine, Mixed. All the colors of this type. Pkt. 10 cts., $\frac{1}{4}$ oz. 25 cts., oz. 75 cts.

DWARF EMPEROR, MIXED. A dwarf, compact strain not over 2 feet tall in an unusual range of colors. Pkt. 10 cts., $\frac{1}{4}$ oz. 25 cts., oz. 75 cts.

For Hardy Larkspur, see Delphiniums, page 29.



Lupinus

Lathyrus

Everlasting or Hardy Sweet Pea

Perennial

Finest Mixed. Hardy climbers, attaining a height of 5 to 6 feet each season and living from year to year. Flowers resemble the old-fashioned Sweet Peas except that they have no fragrance. Pkt. 10 cts., $\frac{1}{2}$ oz. 25 cts., oz. 40 cts.

Lily - Lilium

Perennial

Regale. Most popular and easiest to grow of all Lilies, flowering abundantly within 18 months from seed. Perfectly hardy. Pkt. 25 cts.

For Lily Bulbs, see page 39.

Linum - Flax

Perennial

Showy plant with gray-green foliage and powder-blue flowers of great delicacy and beauty. Pkt. 10 cts., $\frac{1}{4}$ oz. 25 cts., oz. 75 cts.



Larkspur, Giant Imperial

Linaria - Toadflax

Annual

Slender little plants a foot high, bearing dainty, miniature Snapdragons of pink and purple. Excellent for edging.

Maroccana, Fairy Bouquet, Mixed. Compact, 8-inch plants with flowers of various pastel shades. Pkt. 25 cts.

Maroccana, Hybrid Excelsior, Mixed. Plants 1 foot high, with flowers of bright shades. Pkt. 10 cts., $\frac{1}{4}$ oz. 25 cts.

Lobelia

Annual

Crystal Palace Compacta. Rich dark blue flowers. Dark green foliage. Dainty little plants, popular for porch-boxes, vases, and low beds. Seed should be started indoors in February or March and the plants set out in May. Pkt. 15 cts., $\frac{1}{4}$ oz. \$1.50.



Marigold, Guinea Gold

Lupinus - Lupin

The Lupins do well in any good garden soil, preferably with a little shade. They make bushy plants with very attractive leaves and long spikes, closely set with blossoms. Give them plenty of lime, wood-ashes, bonemeal, or other soil-sweetening fertilizers.

Hartwegi, Mixed Colors. Annual. Quick-growing annuals with woolly foliage and stems. Erect spikes with pea-shaped flowers. Pkt. 10 cts., $\frac{1}{4}$ oz. 25 cts., oz. 75 cts.

Polyphyllus, Mixed Colors. Perennial. Grows $2\frac{1}{2}$ to 3 feet tall. Sow in May or June and thin to $1\frac{1}{2}$ feet apart. Pkt. 10 cts., $\frac{1}{4}$ oz. 25 cts., oz. 75 cts.

Russell. A New English strain with large flowers in colors of rich yellows, oranges, reds, and bicolors. 20 seeds 25 cts., 65 seeds 65 cts., 150 seeds \$1.25, 350 seeds \$2.50

Marigold - Tagetes

Annual

Vigorous, free-blooming annuals, thriving on any soil but preferring plenty of sunlight. The African Marigolds grow about 3 feet tall with immense, globular blooms, while the dwarf French kinds are only about 10 inches high with smaller flowers but more of them.

African, Double, Dixie Sunshine. All-America Winner. A tall, late-blooming variety with ball-shaped flowers of golden yellow. Pkt. 25 cts., $\frac{1}{4}$ oz. 75 cts., oz. \$2.

African, Double, Guinea Gold. All-America Winner. Double, ruffled flowers of pure deep golden yellow, fragrant. Pkt. 10 cts., $\frac{1}{4}$ oz. 35 cts., oz. \$1.

African, Double, Lemon Queen. A companion to Prince of Orange, but clear lemon-yellow. Pkt. 10 cts., $\frac{1}{4}$ oz. 75 cts., oz. \$2.

African, Double, Orange Sunset. Immense, rich orange flowers of the Gigantea type. A glorious Marigold. Pkt. 15 cts., $\frac{1}{4}$ oz. 75 cts., oz. \$2.50.

African, Double, Prince of Orange. Very large and double; deep glowing orange. Pkt. 10 cts., $\frac{1}{4}$ oz. 50 cts., oz. \$1.50.

African, Double, Yellow Supreme. All-America Winner. Extra-large flowers, 3 inches or more across, brilliant lemon-yellow. Pkt. 15 cts., $\frac{1}{4}$ oz. 50 cts., oz. \$1.50.

African, Double, Mixed. Shades of orange and yellow. Pkt. 10 cts., $\frac{1}{4}$ oz. 35 cts., oz. \$1.

Dwarf French, Double, Harmony. An extra-early variety, making 12-inch mounds of bloom. The flowers are a large-crested cushion of golden yellow petals surrounded by mahogany ray petals. Pkt. 10 cts., $\frac{1}{4}$ oz. 50 cts., oz. \$1.50.




Marigold, Double French Royal Scot

MARIGOLD, continued


Dwarf French, Single, Legion of Honor. Bushy. Flowers gold and brown. Pkt. 10 cts., $\frac{1}{4}$ oz. 35 cts., oz. \$1.

Tall French, Double, Royal Scot. Large flowers of mahogany and gold in symmetrical stripes on 30-inch plants. Pkt. 15 cts., $\frac{1}{4}$ oz. 50 cts., oz. \$1.50.

 **Dwarf French, Double, Royal Scot.** Plants 12 to 15 inches tall with flat flowers irregularly striped brown and gold. Pkt. 15 cts., $\frac{1}{4}$ oz. 50 cts., oz. \$1.50.

Dwarf French, Double, Finest Mixed. Double flowers of orange and yellow, variously striped and marked with reddish brown. Pkt. 10 cts., $\frac{1}{4}$ oz. 35 cts., oz. \$1.

Ferdinand. A tall French Marigold with brown rays and golden tufts. Pkt. 15 cts., $\frac{1}{4}$ oz. 50 cts., oz. \$1.50.

 **Collarette, Crown of Gold.** Gold Medal, 1937 All-America Selections. Chrysanthemum-type flowers of deep orange surrounded by a collar of flat guard petals. Scentless foliage. Pkt. 10 cts., $\frac{1}{4}$ oz. 50 cts., oz. \$1.50.

Early Sunrise. Chrysanthemum-flowered; golden yellow. Pkt. 25 cts., $\frac{1}{4}$ oz. 75 cts., oz. \$2.

Signata Pumila, Little Giant. Spreading plants 6 inches high, covered with lovely little single flowers of golden yellow. Pkt. 15 cts., $\frac{1}{4}$ oz. 75 cts., oz. \$2.

Mesembryanthemum

Annual

Crystallinum. Ice Plant. Dwarf annual with tender stems and leaves, portions of which are transparent and resemble little icicles. Pkt. 10 cts., $\frac{1}{4}$ oz. 25 cts., oz. 75 cts.

Tricolor. Brilliant red and white, with black centers. Pkt. 10 cts., $\frac{1}{4}$ oz. 50 cts., oz. \$1.50.

Mignonette • Reseda

Annual

Highly valued for its distinct fragrance.

Giant Machet. An improved strain with giant spikes of reddish green florets. Pkt. 10 cts., $\frac{1}{4}$ oz. 25 cts., oz. 75 cts.

Machet, Special Mixed. Contains all the Machet varieties. Pkt. 5 cts., $\frac{1}{4}$ oz. 20 cts., oz. 60 cts.

Matricaria • Feverfew

Annual

Double, white, button-shaped flowers on aromatic plants. Pkt. 10 cts., $\frac{1}{4}$ oz. 35 cts., oz. \$1.

Mimulus

Annual

Moschatus. Musk Plant. Musk-scented foliage and small yellow flowers. Nice for baskets and vases. Pkt. 10 cts., $\frac{1}{4}$ oz. \$1.

Myosotis • Forget-me-not

Biennial

Alpestris. A biennial but it will bloom the first summer from seed sown in early spring. If early spring flowers are wanted, sow in July and transplant the young plants to their permanent bed about the middle of September. Pkt. 10 cts., $\frac{1}{4}$ oz. 75 cts.



Mignonette

Momordica

Annual

Vigorous climbing vines with ornamental fruits, and foliage that is dense enough to make a pleasant shade.

Balsamina. Balsam Apple. Flowers yellow, with dark centers. Fruits orange. Pkt. 10 cts., $\frac{1}{4}$ oz. 25 cts., oz. 75 cts.

Charantia. Balsam Pear. Pear-shaped fruits. Dense foliage. Pkt. 10 cts., $\frac{1}{4}$ oz. 25 cts., oz. 75 cts.

Nicotiana

Sweet-scented Tobacco

Annual

Fine annuals for the tall border, thriving best on a deep, rich soil. They grow about 2½ feet high, with large, attractive foliage at the base and clusters of delicately fragrant trumpet-shaped flowers on long stems.

Affinis Hybrids. Pink and red shades in addition to white. A fine sweet-scented strain. Pkt. 10 cts., $\frac{1}{4}$ oz. 35 cts., oz. \$1.

Sanderæ Hybrids. The flowers are larger than the preceding and come in white and shades of pink and red. Pkt. 10 cts., $\frac{1}{4}$ oz. 35 cts., oz. \$1.

Nasturtiums

Annual

We know of no flowers that are easier to grow or give more general satisfaction than Nasturtiums. They do best in poor soil and they flower all summer long in all kinds of weather.

SEMI-DOUBLE VARIETIES

Dwarf Golden Globe. All-America Winner. Flowers deep golden yellow, sweet scented. Plants produce a great number of blooms which resemble the famous Golden Glean.

Glorious Glean Hybrids. All-America Winner. From Golden Glean and Scarlet Glean has been derived this remarkable new strain with glorious, semi-double flowers in a beautiful array of brilliant colors, all very sweetly scented. Every plant is a profuse bloomer.

Golden Glean. All-America Winner. Compact plants 1 to 1½ feet high, with clear, golden yellow, semi-double flowers. In addition to the remarkable doubling of the bloom, the flowers possess a delicate scent which lacks the usual coarseness of the Nasturtium odor.

Scarlet Glean. All-America Winner. A worthy companion to the famous Golden Glean. The large, semi-double, fragrant flowers are dazzling scarlet. The dwarf, vigorous plants are profuse bloomers all season long.

All Semi-Double Nasturtiums, pkt. 10 cts., oz. 20 cts., $\frac{1}{4}$ lb. 60 cts., lb. \$1.50

SINGLE VARIETIES

Dwarf Fine Mixed Colors. Fine for beds and edging, any place where masses of color are desired. The plants are covered with flowers in a wide range of colors from June until frost.

Tall Fine Mixed Colors. The tall or climbing Nasturtiums are useful for covering fences, or may be allowed to trail over stumps and rockwork.

All Single Nasturtiums, pkt. 5 cts., oz. 10 cts., $\frac{1}{4}$ lb. 35 cts., lb. \$1

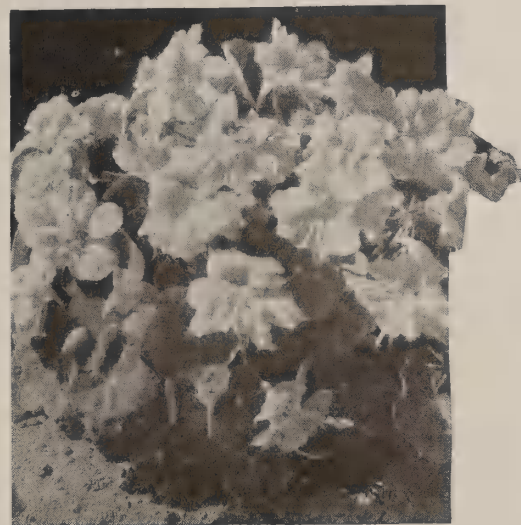
Nigella • Love-in-a-Mist

Annual

Pretty annual 1½ feet high, for bedding and cutting, easily and quickly grown from seed in any sunny spot.

Miss Jekyll, Blue. Fine double azure-blue. Pkt. 10 cts., $\frac{1}{4}$ oz. 25 cts., oz. 75 cts.

Miss Jekyll, White. Flowers pure white. Double. Pkt. 10 cts., $\frac{1}{4}$ oz. 25 cts., oz. 75 cts.



Nasturtium, Glorious Glean Hybrids



Pansies

Pansies

The best results are secured by sowing in late July or August and protecting the young plants over winter with a covering of strawy manure or a deep blanket of leaves. They will then be ready to begin blooming as soon as the weather opens up in the spring and will continue to flower until hot weather. The next best time to sow is very early in the spring, in February or March, starting the seed in a box indoors or in a coldframe and setting the plants outdoors the latter part of April. If set out in a spot that is shaded part of the day, where the soil is deep and moist, and the flowers picked daily, the plants may be kept blooming all summer.

Giants of California, Mixed. A special mixture of giant types. Pkt. 20 cts., $\frac{1}{4}$ oz. \$1.50, oz. \$5.

Mastodon, Finest Mixed. An American strain with flowers often 2 $\frac{1}{2}$ inches in diameter. Strong in red and purple shades. Pkt. 20 cts., $\frac{1}{4}$ oz. \$1.50, oz. \$5.

Roggli Giant Blotched, Mixed. A Swiss strain with especially fine coloring. Pkt. 20 cts., $\frac{1}{4}$ oz. \$1.50, oz. \$5.

Superfine Giants, Mixed. A fine strain with jazzy colors, rich in yellow, with many five-blotched types. Pkt. 25 cts., $\frac{1}{4}$ oz. \$1.35, $\frac{1}{4}$ oz. \$2.25, oz. \$7.

Fine Mixed Colors. A fine assortment of select varieties for bedding, including many bright and beautiful colors. Pkt. 10 cts., $\frac{1}{4}$ oz. \$1, oz. \$3.

Physalis

Perennial

Francheti. Chinese Lantern Plant. Flowers yellow with dark centers, and fruits with blood-red inflated calyx which turn bright red when ripe and resemble Chinese lanterns. Attractive when dried for winter use. Pkt. 15 cts., $\frac{1}{4}$ oz. 60 cts., oz. \$2.

Platycodon - Balloon Flower

Perennial

Erect, leafy plants bearing a profusion of inflated, balloon-like buds, opening to wide, saucer-shaped flowers. Good border perennial for late summer blooming.

Grandiflorum. Steel-blue. Pkt. 10 cts., $\frac{1}{4}$ oz. 50 cts., oz. \$1.50.

Grandiflorum album. White. Pkt. 10 cts., $\frac{1}{4}$ oz. \$1, oz. \$3.

Petunias *Annual*

For solid beds of color, borders and edging, vases and porch-boxes, in fact, for every purpose, the Petunias are surpassed by few if any of the easily grown garden annuals. They come into bloom early and continue to flower profusely all summer long, thriving on poor soil and in the hottest weather. Sow the seed in April or May, scattering it thinly on fine sifted soil and, instead of covering it, press it firmly into contact with the earth with a smooth board. When the seedlings are about 2 inches high, transplant them to the place where you want them to bloom. For extra-early flowers, start seed indoors in March or April.

LARGE-FLOWERING SINGLE FRINGED VARIETIES

Dainty Lady. An entirely new variety, with light golden yellow flowers—a shade previously unknown in Petunias. Pkt. 50 cts.

Dwarf Giants of California, Mixed. (Ramona Strain.) An improved new dwarf strain of the well-known California Giants. Flowers are large and beautifully colored, with open throats, well marked and veined. Pkt. 50 cts.

Elk's Pride. Large and very dark purple, plain edged. Pkt. 25 cts.

Pink Beauty. Clear light pink. Pkt. 25 cts.

Pride of Portland. Deep glowing rose. Pkt. 25 cts.

Scarlet Beauty. Crimson-scarlet. Pkt. 25 cts.

White Beauty. Snowy white. Pkt. 25 cts.

Ruffled Giants, Mixed Colors. Immense single flowers with ruffled and fringed petals, in all colors. Pkt. 25 cts.

SINGLE BEDDING VARIETIES

Blue Bedder. Dwarf, compact, erect plants with fine flowers of mid-blue. Pkt. 15 cts., $\frac{1}{4}$ oz. 50 cts., oz. \$2.50.

Flaming Velvet. All-America Winner. The large, showy flowers are brilliant velvety blood-red or scarlet. Pkt. 25 cts.

Hollywood Star. Silver Medal, 1939 All-America Selections. A distinct Petunia with lobes coming to needle points, making a lovely five-pointed star. The color is rich rose and the throat is amber. Compact, dwarf plants. Pkt. 25 cts.

Martha Washington. Blooms are about 3 inches across, with ruffled edges, bluish-pink, shading to dark violet in the throat; veins wine-red. Pkt. 25 cts.

Pink Gem. Grows 5 to 6 inches high, forming a compact ball completely covered with deep pink blooms 2 inches across. Pkt. 25 cts.

Rose of Heaven. Brilliant fiery rose, similar to Rosy Morn, but more brilliant. The best dwarf pink variety. Pkt. 10 cts., $\frac{1}{4}$ oz. 40 cts., oz. \$2.

Rosy Morn. Vigorous plants, 10 inches tall, compact and free-flowering. Flowers soft carmine-pink with white throat. Pkt. 10 cts., $\frac{1}{4}$ oz. 40 cts., oz. \$2.

Snow Queen. Plants of the Nana Compacta type. Cover themselves with snow-white flowers all summer and fall. A lovely variety. Pkt. 15 cts., $\frac{1}{4}$ oz. 50 cts., oz. \$2.50.

Violacea, Blue Bird. Violet-blue. Extra fine. Pkt. 10 cts., $\frac{1}{4}$ oz. 50 cts., oz. \$2.50.

Striped and Blotched, Mixed. Compact plants with flowers striped and blotched. Very striking. Pkt. 10 cts., $\frac{1}{4}$ oz. 30 cts., oz. \$1.50.

Single, Fine Mixed. An excellent assortment for bedding, including many fine colors. Pkt. 10 cts., $\frac{1}{4}$ oz. 30 cts., oz. \$1.50.

LARGE - FLOWERING DOUBLE FRINGED VARIETIES

Alldouble Giant Fringed, Mixed. A magnificent strain produced by careful hand hybridizing. The flowers are large and have beautifully frilled and crinkled petals. These Petunias make splendid pot-plants. Pkt. \$1.

Large, Double-flowering Fringed, Mixed. A fancy mixture which produces a large percentage of doubles. Pkt. 50 cts.



Petunia, Flaming Velvet

Portulaca *Annual*

The Portulacas will grow on soil too poor and in places too hot and sunny for any other flower. The plants are low and spreading, commencing to bloom in July and blooming profusely all summer. Sow the seed when the ground gets warm. Flowers like little roses.

Double. Pink, Salmon, Scarlet, White, Yellow or Mixed. Pkt. 10 cts., $\frac{1}{4}$ oz. 60 cts., $\frac{1}{4}$ oz. \$1, oz. \$3.

Single, Mixed. Very bright and attractive. Good mixture of colors. Pkt. 10 cts., $\frac{1}{4}$ oz. 35 cts., $\frac{1}{2}$ oz. 60 cts., oz. \$1.

Primula - Primrose

Perennial

Malacoides, Mixed. Fine free-blooming flower for the rockery and perennial border. Sow the seed inside in February or early March and transplant to the open ground in April. The plants are tender and should be given light protection over winter. Pkt. 10 cts., $\frac{1}{4}$ oz. 25 cts., oz. 75 cts.

Pyrethrum

Perennial

Very easy to grow from seed sown any time from early spring to late summer. Seed started under glass in February will give blooming plants the first summer. By cutting off the first crop of flowers a second crop will be produced in the fall.

Aureum. Golden Feather. Grown mostly for its showy golden yellow laciniated foliage. Nice for borders. Pkt. 10 cts., $\frac{1}{4}$ oz. 20 cts., oz. 50 cts.

Roseum, James Kelway. Large, daisy-like flowers of deep scarlet. An excellent cut-flower. Pkt. 25 cts., $\frac{1}{4}$ oz. 75 cts., oz. \$2.75.

Roseum, Single and Double Mixed. Painted Daisy. These include all shades from deep red to white. Pkt. 10 cts., $\frac{1}{4}$ oz. 75 cts., oz. \$2.75.

Garden Flowers in Color. Has 320 pages, 400 photographs in color with brief cultural directions. \$1.98.

Phlox Drummondii

Annual

Blooming in midsummer, these easily grown flowers make the most brilliant of beds. They prefer an open, sunny situation, but are not particular as to soil and will give good results under almost any conditions. Sow the seed in April or early May and thin the plants to stand about 4 inches apart.

TALL VARIETIES (about 15 in. high)
Crimson Violet, white eye
Lilac White
Rose, dark eye Yellow
Finest Mixed

All Tall Phlox, pkt. 10 cts., 1/4oz. 50 cts., oz. \$1.50

Gigantea, Art Shades. All-America Winner. A lovely strain with flowers over an inch in diameter of soft pastel shades, each with a distinctive eye. Bushy plants about 10 inches high. Pkt. 25 cts., 1/4oz. \$1, oz. \$3.

DWARF VARIETIES Annual

Nana compacta, Mixed. These grow about 8 inches high and quite bushy, making fine borders and ribbon beds. Mixed colors, pkt. 10 cts., 1/4oz. 60 cts., oz. \$2.

HARDY VARIETIES Perennial

Finest Mixed. Produces large heads of brilliantly colored flowers of many shades. Plants grow 2 to 4 feet high. Pkt. 10 cts., 1/4oz. \$1.50, oz. \$5.

Poppy - Papaver

Although the Poppies last for only a short time, while they are in bloom no flowers can rival them in brilliant colors. The seed is fine and should be scattered thinly in the place where the plants are wanted to bloom, as they do not transplant well. Height, 2 feet. Sow the annual sorts in April and the perennial kinds June to September.

ANNUAL VARIETIES

Double Shirley, Dazzler. Double flowers of vivid orange-scarlet. Pkt. 10 cts., 1/4oz. 25 cts.

Double Shirley, Sweet Briar. Double flowers of the same color as the Single Wild-Rose-Pink. Pkt. 10 cts., 1/4oz. 25 cts.

Shirley, American Legion. Brilliant scarlet, single blooms. An improved Flanders Poppy. Pkt. 10 cts., 1/4oz. 25 cts.

Shirley, Wild-Rose-Pink. Single flowers of soft wild-rose-pink. A beautiful flower. Pkt. 10 cts., 1/4oz. 25 cts.



Papaver nudicaule

POPPIES, continued

Shirley, Mixed Colors. Probably the finest strain of annual, single-flowered Poppies. White and pale pink to bright scarlet and deep crimson, including rose with white edge, red with white edge, etc. Very showy. Pkt. 10 cts., 1/4oz. 20 cts.

Tall Peony-flowered, Mixed. Large, double flowers with plain edges in a wide range of colors. Pkt. 10 cts., 1/4oz. 20 cts.

Tulip Poppy (P. glaucum). Dazzling scarlet with a black maltese cross at center. Pkt. 10 cts., 1/4oz. 25 cts.

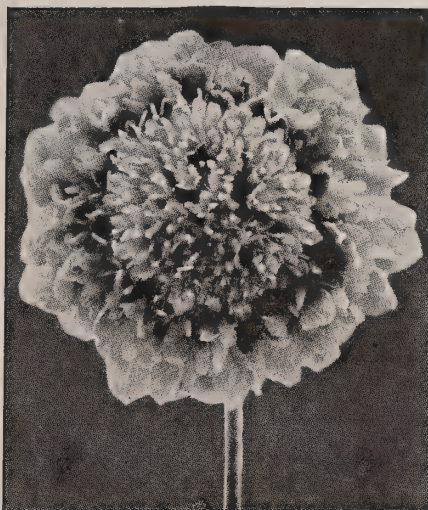
PERENNIAL VARIETIES

Nudicaule, El Monte. Large flowers of deep tangerine-orange. Pkt. 25 cts., 1/4oz. 75 cts.

Nudicaule, Sunbeam Hybrids, Mixed. A fine strain of Iceland Poppies in shades of yellow and orange. Pkt. 10 cts., 1/4oz. 50 cts.

Orientele, Scarlet. The big, bright scarlet Decoration Day Poppy. A hardy perennial form bearing immense single flowers. Pkt. 10 cts., 1/4oz. 50 cts.

Orientele, Mixed. A fine mixture of the various Oriental Poppy colors. Pkt. 10 cts., 1/4oz. 50 cts.



Scabiosa, Peach Blossom

Rhodanthe

Swan River Everlasting

Annual

Mixed Colors. Can be dried in its natural colors for winter bouquets. It is an easily grown annual, about 1 1/2 feet tall, with silvery gray leaves and very pretty, little, double flowers. Pkt. 10 cts., 1/4oz. 25 cts., oz. 75 cts.

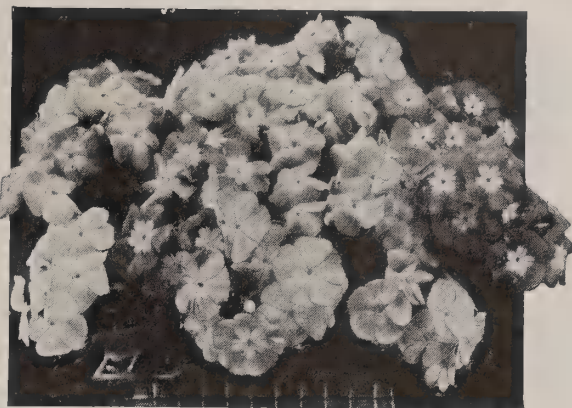
Salpiglossis - Painted Tongue

Annual

A popular, easily grown garden annual, richly colored and fine for cutting. The flowers are borne in clusters at the top of long stems and are produced very freely from midsummer to fall. Sow the seed in late April or May and thin the plants to stand about 10 inches apart.

Brown and Gold Scarlet and Gold
Golden Yellow Velvety Red
Light Blue and Gold Finest Mixed

All Salpiglossis, pkt. 15 cts., 1/4oz. 35 cts., oz. \$1



Phlox Drummondii, Art Shades

Salvia - Sage

Start the seed indoors or in hotbeds very early, during January or February if possible. When 2 to 3 inches high transplant into small pots or space to 6 inches apart. Transplant to the garden in late May, in a sunny location and rich, deeply dug soil, setting the plants at least 1 1/2 feet apart.

America. Annual. Grows about 1 1/2 feet tall. Plants a mass of light blazing scarlet. Profuse bloomer. Pkt. 10 cts., 1/4oz. \$1.50, oz. \$5.

Bonfire. Annual. A select strain, fine for mass planting, as it is very compact in growth and has exceedingly brilliant scarlet flowers. Pkt. 10 cts., 1/4oz. \$1.25, oz. \$3.50.

Farinacea, Blue Bedder. A fine perennial with light blue flowers on spikes about 2 feet long. Seed sown in early May should give plants that bloom from July to frost. Pkt. 15 cts., 1/8oz. \$1.10, 1/4oz. \$1.75, oz. \$6.

Splendens. Annual. The original Scarlet Sage. It grows about 2 feet tall and is covered with large, bright red blossoms all summer long. Pkt. 10 cts., 1/4oz. 75 cts., oz. \$2.25.

Zurich. Annual. An early variety only 1 foot high. Pkt. 10 cts., 1/4oz. \$1.50, oz. \$5.

Scabiosa - Mourning Bride

Annual

One of the finest annuals for cutting. Grows in almost any situation; 2 1/2 to 3 feet high; blooms for a long season.

Azure Fairy. Azure-blue.

Black Prince. A very dark purple.

Cherry-Red. A nice shade of red.

Loveliness. Soft salmon-rose.

Peach Blossom. Peach-blossom-pink.

Shasta. Pure white.

Above Scabiosa, pkt. 15 cts., 1/4oz. 25 cts., oz. 75 cts.

Blue Moon. Honorable Mention, 1939 All-America Selections. Erect, free-blooming plants with thick heads of deep lavender-blue. Pkt. 25 cts., 1/8oz. 75 cts., 1/4oz. \$1.25, 1/2oz. \$2.

Giant-flowered, Mixed. Pkt. 10 cts., 1/4oz. 25 cts., oz. 75 cts.

Schizanthus - Butterfly-Flower

Annual

Wisetonensis Excelsior compactus. A dainty little plant 6 inches high, adapted to bedding and borders. Blooms freely during the entire summer. An excellent pot-plant. Finest mixed, pkt. 15 cts., 1/4oz. \$1.25.

Stock - Gilliflower

Annual

Large-flowering, Mixed. The old-fashioned Ten-Weeks Stocks are beautiful, free-flowering, sweet-scented annuals, requiring a mellow soil. Sow the seed in April or May and give the plants 12 to 15 inches of space. Pkt. 10 cts., 1/4oz. \$1.25, oz. \$2.50.



Sweet Peas,
Captain Blood

Sweet Peas

Annual

Sweet Peas bloom best in an open, sunny situation. Keeping the flowers picked as fast as they open prolongs the period of bloom. The old-fashioned or Grandiflora type of Sweet Peas are hardy and very floriferous and the flowers are heavily scented, although of only medium size and rather stiff in form. The new Spencer or Waved Sweet Peas are much larger and finer in form as well as colors, but not quite so free-blooming. Modern gardeners and florists as a rule grow only the Spencer varieties. Plant as early as the ground can be worked, in deeply prepared rich soil. Never allow the soil to dry out after the plants appear.

Scott's Summer-flowering Spencers

Distinguished by giant size, often measuring 2 inches in diameter, and by beautifully waved petals. Hundreds of varieties are known to specialists and new sorts are being constantly produced by English and American breeders, but we believe that the varieties we offer comprise the best and most satisfactory of the new as well as old, in all of the favorite colors.

One ounce of seed will plant a row about 15 feet long

Ambition. Rosy lavender.
Avalanche. Glistening white.
Captain Blood. Brilliant scarlet.
Colorado. Bright orange.
Damask Rose. Deep rose.
Flaming June. Scarlet.
Gigantic. Best white.
Gleneagles. Large; pale lavender.
International. Rich mauve.
Magnet. Bright cream-pink.
Mammoth. Orange-scarlet.
Mastercream. Cream.
Mrs. A. Searles. Bright salmon.
Prince of Orange. Deep orange.
Pinkie. Large; rose-pink.
Reflection. Clear blue.
Susan. Blush-pink.
The Admiral. Violet-blue.
The Sultan. Black, velvety maroon.
Welcome. Dazzling scarlet.

All Spencer Sweet Peas, pkt. 10 cts., oz. 30 cts., ¼lb. \$1, lb. \$3

Sweet Pea Mixture

Scott's Finest Mixed Spencers. A wonderful mixture of finest varieties in many beautiful colors. Pkt. 10 cts., oz. 25 cts., ¼lb. 60 cts., lb. \$2.

Scott's Finest Mixed Grandiflora. The old-fashioned, deliciously fragrant kind. Oz. 10 cts., ¼lb. 30 cts., lb. \$1.

Sweet William *Dianthus barbatus*

Biennial

A great favorite in all gardens. Easily grown from seed. The flowers are borne in large trusses and are delightfully fragrant. Sow any time from early spring to July. The plants should stand at least 8 inches apart.

Double Varieties, Mixed Colors. The double flowers are very attractive in form as well as colors. Pkt. 10 cts., ¼oz. 35 cts., oz. \$1.

Newport Pink, Single. A single variety of a salmon-rose shade. Fine cut-flower. Pkt. 10 cts., ¼oz. 35 cts., oz. \$1.

Single Varieties, Mixed Colors. A wide range of colors, many with distinct "eyes" or margins of a different shade. Pkt. 10 cts., ¼oz. 25 cts., oz. 75 cts.

Thunbergia • Black-eyed Susan

Annual

A slender climbing or trailing annual with many little flowers, varying from palest primrose to deep buff-yellow, all with dark centers, from which it derives its common name. Start indoors in February or March. Pkt. 10 cts., ¼oz. 25 cts., oz. 75 cts.

Tithonia • Mexican Sunflower

Annual

Speciosa. A tall, branching, half-hardy annual with very striking rich orange-scarlet flowers. Fine for clumps in the tall border. Grows 6 feet or more high. Pkt. 15 cts., ¼oz. 50 cts., oz. \$1.75.

Verbena

Annual

Low, spreading plants with handsome dark green foliage and great clusters of sweet-scented flowers all summer long. Old favorites for low beds and edging, also for boxes and vases. Sow indoors in February or March.

GRANDIFLORA GIGANTEA HYBRIDS. A showy type with giant flowers in fine heads. The colors are brilliant and stand out against the lovely green foliage. A continuous bloomer from midsummer on.

Beauty of Oxford. Spectacular heads of nice form. The color-range is from rose-pink to rose-red.

Lavender Glory. Large flowers of pure lavender with a creamy white eye.

Royale. Royal blue, creamy yellow eye.

Scarlet Queen. Rosy scarlet, large white eye.

Spectrum Red. Intense bright red.

All Grandiflora Gigantea Hybrids, pkt. 15 cts., ¼oz. 75 cts., oz. \$2.50

MAMMOTH HYBRIDS. These varieties produce extra-large flower-heads with individual florets often measuring an inch across.

Auricula-Eyed, Mixed.

Blue Shades.

Defiance. Scarlet.

Italian, Striped, Mixed.

Lucifer. Brilliant scarlet.

Pink and Rose Shades.

White.

Mammoth, Mixed.

All Mammoth Hybrid Verbenas, pkt. 10 cts., ¼oz. 35 cts., oz. \$1

Choice Mixed. Pkt. 10 cts., ¼oz. 25 cts., oz. 75 cts.

Veronica • Speedwell

Perennial

Spicata. Sturdy plants bearing erect spikes of dark blue flowers in midsummer. A good low perennial about 18 inches tall, useful for garden decoration and cutting. Pkt. 10 cts., ¼oz. 75 cts., oz. \$2.25.

Vinca rosea

Madagascar Periwinkle

Annual

Forms handsome, bushy bedding plants that bloom profusely all summer from seed sown indoors in February or March, and is fine for pot culture. Height, 1 to 1½ feet.

Finest Mixed. An excellent assortment of Red, White with Rose center, Pure White, and Pink. Pkt. 10 cts., ¼oz. 50 cts., oz. \$1.50.

Viola

Finest Mixed. The most attractive colors of this desirable spring flower. Pkt. 25 cts., ¼oz. 75 cts., oz. \$2.50.

Wallflower Perennial

The Wallflowers are perennials but in our rigorous climate they require protection over winter and are best carried over in a cold-frame. Sow the seed indoors in March or outdoors late in May and space the plants about 8 inches apart. The flowers are clustered on spikes 1½ feet tall, and are very fragrant.

Double Varieties, Extra-Fine Mixed. Artistic shades of coppery-red, bright brown, bronzy yellow, etc. Pkt. 10 cts., ¼oz. 75 cts., oz. \$2.

Wild Cucumber Vine

Annual

Lobata. A very rapid-growing, vigorous climber, often running 30 to 40 feet in a season. It bears small, white, slightly fragrant flowers, followed by spiny seed-pods. Pkt. 10 cts., ¼oz. 20 cts., oz. 60 cts.



Verbena, Beauty of Oxford

ZINNIAS • Youth and Old Age

Few flowers provide a more gorgeous display with less care or attention; all they require is a sunny spot to cause them to grow and bloom vigorously from early summer until frost. The seed may be sown in the garden any time during April or May and the plants thinned or transplanted to stand 8 to 18 inches apart, according to variety. The largest specimen blooms are produced on plants that are grown on a mellow, moderately rich soil and given ample room to develop.

GIANT DOUBLE DAHLIA-FLOW-ERED VARIETIES. Plants 2½ to 3 feet high, bearing huge, double flowers resembling the Show type of Dahlia.

Crimson Monarch. Deep crimson.

Dream. Deep rosy lavender.

Exquisite. Light rose, deep rose center.

Giant Attraction. Brick-red.

Golden Dawn. Golden yellow.

Illumination. Deep rose.

Oriole. Orange and gold bicolor.

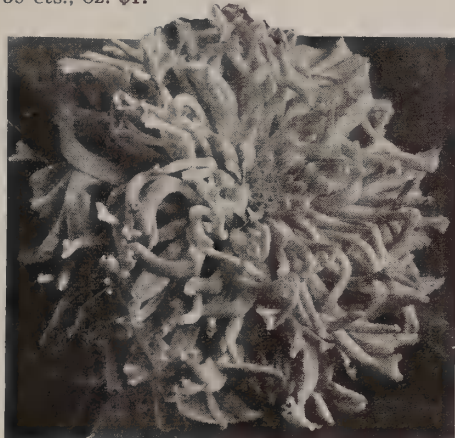
Scarlet Flame. Bright scarlet.

Will Rogers. Brilliant scarlet-red.

Finest Mixed. All colors.

All Giant Double Dahlia-flowered Zinnias, pkt. 15 cts., ¼oz. 40 cts., oz. \$1.25

ELEGANS, CURLED AND CRESTED. Tall, double flowers with the petals artistically twisted and curled. Pkt. 10 cts., ¼oz. 35 cts., oz. \$1.



Zinnia, Fantasy

FANTASY

A novelty that has created a sensation wherever shown. Stems long and strong.

Rosalie. Fantasy type flowers in various shades of rose and pink. Free-blooming plants. Pkt. 15 cts., ¼oz. 90 cts., oz. \$3.

Star Dust. Award of Merit, 1937 All-America Selections. Clear golden yellow flowers of the Fantasy type. Blooms early and generously. Pkt. 15 cts., ¼oz. 60 cts., oz. \$2.

Fantasy Mixed. Award of Merit, 1935 All-America Selections. Striking rich colors of medium-sized flowers. Splendid cutting material. Pkt. 10 cts., ¼oz. 50 cts., oz. \$1.50.

DOUBLE GIANT VARIETIES. Large, very double flowers, fine for cutting.

Canary-Yellow, Crimson, Deep Rose, Purple, Scarlet, White or Mixed. Pkt. 10 cts., ¼oz. 35 cts., oz. \$1.

DOUBLE MEXICAN HYBRIDS

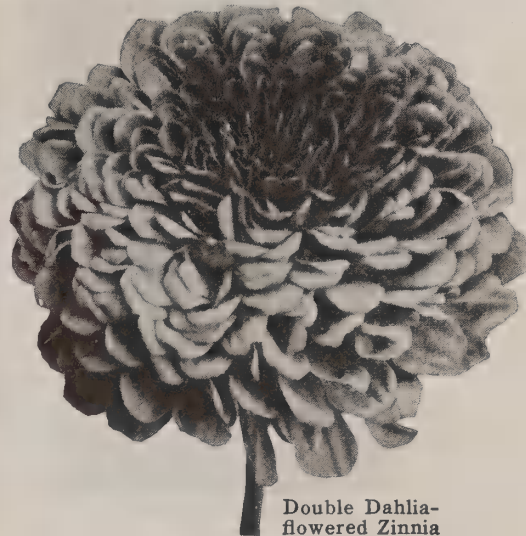
Haageana, Finest Mixed. Small flowers on low, bushy plants, making a fine display over a long season. Stems are long enough for cutting. Pkt. 15 cts., ¼oz. 40 cts., oz. \$1.25.

DWARF DOUBLE VARIETY. Cut-and-Come-Again. An excellent bedding type not over 2 feet tall. Distinct colors. Finest Mixed. Pkt. 10 cts., ¼oz. 35 cts., oz. \$1.

POMPON or BABY DWARF VARIETIES. A popular type for cutting. Small compact flowers. Plants 1½ to 2 feet tall.

Canary Gem, Salmon Gem, Crimson Gem, Lilac Gem, Purple Gem, Rosebud, Scarlet Gem, Valencia (Orange) or Mixed. Pkt. 10 cts., ¼oz. 35 cts., oz. \$1.

SCABIOSA-FLOWERED, MIXED. Medium-sized flowers like a Scabiosa, with ray petals surrounding a large cushion. Attractive form and range of bright colors. Pkt. 15 cts., ¼oz. 75 cts., oz. \$2.



Double Dahlia-flowered Zinnia

Flower Seed Mixtures

Scott's Annual Cut-Flower

Here is a mixture of annuals that we do not hesitate to recommend. Anyone is sure to have success with it, and it provides continuous bloom all summer. Pkt. 10 cts., ½oz. 25 cts., oz. 45 cts., ¼lb. \$1.50.

Scott's Annual Rock-Garden

A carefully selected assortment suitable for the rockery. Especially useful to fill vacancies. Pkt. 10 cts., ¼oz. 35 cts., oz. \$1.

Scott's Perennial Rock-Garden

A fine collection for permanent plants for the rock-garden. Recommended to the beginner. Pkt. 25 cts., ¼oz. 75 cts., oz. \$2.50.

GARDEN BOOKS

1001 GARDEN QUESTIONS ANSWERED. By Alfred C. Hottes. A guide-book to daily operations, covering the flower-, fruit-, and vegetable-garden. 330 pages; 116 illustrations. Cloth, \$2.

GARDEN GUIDE. A most complete book for the amateur. Written by 28 authors. Covers the entire place from landscaping through the finished garden, both fruit, vegetable, and flower. Chapters on soils, fertilizers, diseases, insects, propagation, transplanting, pruning, winter protection, etc. 576 pages; over 300 illustrations. Cloth, \$2.

LAWNS. By F. F. Rockwell. Shows both how to start a lawn right and how to keep it smooth. 87 pages; 39 illustrations. \$1.25.

THE LAWN. By L. S. Dickinson. 128 pages; illustrated. \$1.25.

SHRUBS. By F. F. Rockwell. 76 pages; 49 illustrations. \$1.25.

THE BOOK OF SHRUBS. By Alfred C. Hottes. 446 pages; 184 illustrations. Cloth, \$3.

THE BOOK OF BULBS. By F. F. Rockwell. Here is the "last word" on bulbs and how to grow them in the garden. Pictures and text show and tell just how to make the most from bulbs in your garden, both outdoors and inside the home. 264 pages; 187 illustrations. \$2.50.

ALL ABOUT FLOWERING BULBS. By T. A. Weston. 186 pages; 8 full-page color-plates; 65 full-page half-tones. Cloth, \$2.

MODERN DAHLIA CULTURE. By W. H. Waite. 134 pages; 6 full-page color-plates and 24 half-tones. Cloth binding, \$1.50.

DAHLIAS. By F. F. Rockwell. It describes the various types and tells their uses, how to plant and grow them, the fertilizers to use, how to control pests, etc. 80 pages; 65 illustrations. \$1.25.

GLADIOLUS. By F. F. Rockwell. 79 pages; 45 illustrations. \$1.25.

ROSES. By F. F. Rockwell. 86 pages; illustrated. \$1.25.

HOW TO GROW ROSES. By McFarland and Pyle. A completely re-written edition of America's most popular rose book. 192 pages; 40 illustrations in color, 31 in black and white, and 62 line drawings. \$1.

CLIMBING ROSES. By G. A. Stevens. A companion volume to "How to Grow Roses." 31 color-plates and 32 half-tone illustrations. Cloth, \$2.

THE BOOK OF ANNUALS. By Alfred C. Hottes. 180 pages; 122 illustrations. Cloth, \$1.50.

PERENNIAL GARDENS. By H. S. Orloff. 90 pages; 18 illustrations. \$1.25.

THE BOOK OF PERENNIALS. By Alfred C. Hottes. 280 pages; over 100 illustrations. Cloth, \$2.

PEONIES. By F. F. Rockwell. Tells all about peonies, where and how to grow them, their planting, care, cultivation, propagation, and protection. Illustrated with photographs and drawings. \$1.25.

SUCCESS WITH HOUSE PLANTS. By Kift and Hedenberg. 80 pages; 29 illustrations. 75 cts.

WATER GARDENS AND GOLDFISH. By R. V. Sawyer and E. H. Perkins. 272 pages; 126 illustrations. Cloth, \$2.

ROCK-GARDEN PRIMER. By Archie Thornton. 140 pages; 4 color-plates and 70 other illustrations. Leatherette, \$2.

ROCK-GARDENS. By F. F. Rockwell. Shows just how you can build a rock-garden yourself, on a small or large scale, and at little expense. Let this practical book demonstrate the fascination of this form of gardening and guide you to success. 86 pages; 31 illustrations. \$1.25.

EVERGREENS FOR THE SMALL PLACE. By F. F. Rockwell. All the information you need to make the best use of evergreens is in this handy book. 84 pages; 67 illustrations. \$1.25.

ANNUALS FOR YOUR GARDEN. By Daniel J. Foley. Contains full cultural directions for 90 annual flowers. 97 pages, 32 full color plates. \$1.

SOILLESS GROWTH OF PLANTS. By Carleton Ellis and Miller W. Swaney. Gives complete instructions for carrying on plant culture; how to build containers; how to make up "tested" nutrient solution from the raw materials; chemistry of plant-life, etc. 160 pages; 60 illustrations—3 in color. \$2.75.

PLANT PROPAGATION. By Alfred C. Hottes. Easily understood by the amateur but covers propagation by all the approved commercial methods. Revised edition. 238 pages; 136 illustrations. Cloth, \$2.

AROUND THE YEAR IN THE GARDEN. By F. F. Rockwell. It starts with preparations for the season's work in January and outlines a balanced program for the garden through every week in the year. 350 pages; 88 illustrations. \$3.

GARDEN BULBS IN COLOR. By McFarland, Hatton and Foley. Has 275 color plates and 100 beautiful halftones. Complete cultural notes are included. 296 pages. \$1.98.

PRACTICAL VEGETABLE CULTURE. By Albert E. Wilkinson. Useful for both amateur and professional. 308 pages; 135 illustrations. \$2.

MANUAL OF GARDENING. By L. H. Bailey. 539 pages; 350 illus. \$3.

GARDEN FLOWERS IN COLOR. By G. A. Stevens. It has 400 flower pictures in full color. There is a picture on every page, and the brief cultural directions are directly opposite the illustrated flower. 320 pages; 400 photographs in color. \$1.98.

If the book you are wanting is not listed, give us the subject and we will be glad to tell you what is available, and the price

SUMMER-FLOWERING BULBS

All Bulbs Sent Postpaid at Prices Quoted



Anemone, St. Brigid

Anemone - Windflower

Suitable for pot or border culture and for massing. Soak bulbs 24 hours before planting.

Blue Poppy. A newer variety of a sky-blue color.

De Caen. A very large-flowered, single strain of unique beauty. All colors.

Hollandia. Rich crimson flowers from June until frost.

St. Brigid. Very large, vivid flowers of scarlet, pink, purple, etc.

All Anemones, 10 cts. each, \$1 per doz., \$7 per 100

Begonias, Tuberous-rooted

Bulbs are hollowed on one side and in planting the hollowed side must be up. They make strong, fleshy stems a foot or more high, with big, bristly, very beautiful leaves, crowned by flowers of enormous size and almost unbelievable brilliance. Blooms $4\frac{1}{2}$ to 5 inches across are not unusual. They should be started in pots or pans indoors in February or March, and transplanted to the garden about the time that corn is growing well. They may also be started outdoors at the same time but will bloom later. Separate colors: **Single varieties, white, scarlet, pink, or yellow flowers; Double varieties, red, salmon, rose, or orange flowers.** Above varieties, 25 cts. each, \$2.50 per doz., \$20 per 100.

Red Sensation. New. Brilliant red flowers. Profuse bloomer. 75 cts. each, \$7.50 per doz.

Gloxinia

Beautiful velvety flowers of trumpet shape produced by tender, tropical bulbs which may be grown in pots or greenhouse benches. The large foliage is covered with plush-like hairs, and should not be wet. Keep them warm at all times.

Crimson	Rose	White
Mottled	Violet	Mixed Colors

All Gloxinias, 35 cts. each, \$3.50 per doz.

Caladium esculentum

Elephant's Ear

For imposing masses of tropical foliage there is nothing so effective or so easily grown as the Elephant's Ear. The plants grow from 3 to 5 feet high. Plant the bulbs late in May, after all danger from frost is past, spacing them 2 to 4 feet apart and covering them a few inches deep. The larger the bulb, the larger the plant and the more space required. If extra-large plants are desired, start the bulbs indoors in pots or large boxes, in March or early April, and transplant to the open about June 1. Give plenty of water throughout the season; liquid manure is very beneficial.

	Each	Doz.	100
5 to 7-in. circ....	\$0 05	\$0 50	\$3 50
7 to 9-in. circ....	10	1 00	7 00
9 to 11-in. circ....	15	1 50	10 00
11 to 13-in. circ....	25	2 75	20 00
13 to 15-in. circ....	40	4 00	30 00

Hyacinthus candicans

Summer Hyacinth

Tall spikes with scores of drooping, bell-shaped white flowers in midsummer. Very attractive and unusual. Handle like gladiolus. 15 cts. each, \$1.50 per doz., \$10 per 100.

Ismene calathina

Peruvian Daffodil

Enormous, richly fragrant white flowers of the amaryllis type, curiously cupped and most attractive. Grow in warm, sunny soil and treat like gladiolus, except that they cannot be set out until corn is growing outdoors, and the bulbs should be kept warm in winter. 35 cts. each, \$3.50 per doz.



Tuberous-rooted Begonias



Gloxinia

Montbretia

Star-shaped flowers in beautiful colors, including scarlet, yellow, apricot, blotched and spotted. They often measure 4 inches across, and are borne in clusters on long stems 3 to 4 feet high.

Mixed colors. 10 cts. each, \$1 per doz., \$7 per 100.

Summer-blooming Oxalis

Charming low, bushy plants for growing in pots or borders, with clover-like leaves and round, cheerful flowers of various shades of pink and crimson which close at night. Continue in bloom for many weeks. 10 bulbs 20 cts., \$1.75 per 100.

Ranunculus

Finest Mixed. Fine, brilliantly colored, double flowers on stems over a foot long for cutting. Double and semi-double, and produced in abundance. 10 cts. each, \$1 per doz., \$7 per 100.

Tigridia

One of the most spectacular flowers grown in gardens. The 5- to 6-inch triangular blooms have three long petals of yellow, orange, white, flesh-pink, or red, and three short petals forming a shallow cup filled with spots, stains, and blotches of red. They last only a day but they continue coming from July until September. Mixed colors, extra-large bulbs, 15 cts. each, \$1.50 per doz., \$12 per 100.

Tuberose

Old-fashioned flowers valued for their fragrance. Start the bulbs indoors in March and transplant to the open in early May.

White Pearl. The best variety. Flowers creamy white, large, and double.

	Each	Doz.	100
First-Size Bulbs...	\$0 05	\$0 50	\$3 25
Mammoth Bulbs...	10	1 00	7 00



Canna

Cannas

The modern Cannas with their splendid foliage and large, gorgeously colored flowers surpass all other plants for massive beds and heavy borders. They are very easy to grow, thriving best in a sunny, well-drained spot. For extra-large plants and heavy foliage effects, the soil should be well manured.

Ambassador. Brilliant cherry-red flowers of immense size. Foliage and stalks bronze. Height 4 feet. 10 cts. each, \$1 per doz., \$7 per 100.

Crimson Bedder. Foliage dark green; flowers deep blood-red. Height 3 feet. 8 cts. each, 90 cts. per doz., \$6 per 100.

Eureka. The best white-flowering Canna for bedding. Height 4½ feet. 12 cts. each, \$1.25 per doz., \$9 per 100.

Fiery Cross. Big, substantial carmine-red flowers and beautiful bluish green foliage. Height 4 feet. 10 cts. each, \$1 per doz., \$7 per 100.

Florence Vaughan. Flowers yellow with red spots; leaves light green. Height 4½ feet. 8 cts. each, 90 cts. per doz., \$6 per 100.

Hungaria. Dwarf plants with massive green foliage and flowers of an exquisite shade of peach-blossom-pink. Height 3 to 3½ feet. 10 cts. each, \$1 per doz., \$7 per 100.

King Humbert. On account of its rich purplish bronze foliage, one of the most handsome. Flowers orange-scarlet, freely produced for a long season. Height 4½ feet. 10 cts. each, \$1 per doz., \$7 per 100.

Meteor. The broad-petaled flowers are dazzling crimson and are carried in big clusters. Foliage deep green. Vigorous and blooms for a long season. Height 5 feet. 10 cts. each, \$1 per doz., \$7 per 100.

Shenandoah. Flowers salmon-pink, borne in large clusters; foliage rich ruby-red. Height 4 feet. 8 cts. each, 90 cts. per doz., \$6 per 100.

Statue of Liberty. Flowers blazing flame-red. The foliage is of a rich, luxuriant bronzy shade. The leaves are larger than any Canna we know. Height 6 to 7 feet. 10 cts. each, \$1 per doz., \$7 per 100.

The President. Enormous glowing scarlet flowers of wonderful substance borne erect on strong stems; luxuriant deep green foliage. Blooms continuously from midsummer until frost. Height 4 feet. 10 cts. each, \$1 per doz., \$7 per 100.

Queen Charlotte. Rich pomegranate-red flowers bordered with golden yellow. Height 3½ feet. 8 cts. each, 90 cts. per doz., \$6 per 100.

Wintzer's Colossal. Remarkable for its exceptionally large, broad-petaled flowers, often measuring 8 inches across. Deep scarlet with light green foliage. Height 5 feet. 10 cts. each, \$1 per doz., \$7 per 100.

Yellow King Humbert. A large-flowered yellow variety, popular for tall beds. Flowers deep yellow, blotched with red; leaves dark green. Height 5 feet. 10 cts. each, \$1 per doz., \$7 per 100.

Hardy Lilies

Showy garden flowers of the utmost beauty and stateliness, which are enormously popular just now. Plant them 6 to 8 inches deep and as early as possible in well-drained unfertilized soil, and let them alone.

Auratum (Gold-banded Lily). White flowers of enormous size with crimson spots and golden stripes produced in August. 35 cts. each, \$3.50 per doz.

Henryi. The flower-stalk, 3 to 5 feet high, carries numerous flowers of rich apricot-yellow spotted brown. 25 cts. each, \$2.50 per doz.

Philippinense formosanum. A lovely, easy-to-grow Lily which blooms during September and October. The slender trumpets are 5 to 6 inches long, pure white inside, greenish white with rosy stripes outside. Delicious fragrance. 50 cts. each, \$5 per doz.



Lilium auratum

Regale (The Royal Lily). Enormous, trumpet-shaped flowers with waxen white petals suffused with gold inside and stained with purple outside; fragrant. Does well in almost any situation, growing 2 to 4 feet high and bearing its blooms in a whorl at the top. 35 cts. each, \$3.50 per doz.

Speciosum album. Pure white. 35 cts. each, \$3.50 per doz.

Speciosum rubrum. White, shaded with deep rose and spotted red. 35 cts. each, \$3.50 per doz.

Tenuifolium (Coral Lily). Small flowers of bright coral-scarlet, produced in generous quantities on 1½-foot plants in June. 35 cts. each, \$3.50 per doz.

Tigrinum splendens (Tiger Lily). Grows 4 to 6 feet tall; flowers orange-red and brown. 25 cts. each, \$2.50 per doz.

Umbellatum. Sturdy, 2-foot plants bearing umbellate heads of erect, spreading flowers of rich orange. Easy to grow. June bloom. 35 cts. each, \$3.50 per doz.



Pond and Marsh Plants

Hardy Water-Lilies

	Each ppd.
Blue Beauty. (Tropical.) Day blooming. Glorious rich blue.	\$2 50
Chromatella. Rich canary-yellow.	1 50
Chomanche. Sunset shade.	2 25
General Pershing. Day blooming. Light pink.	2 25
Gladstone. Pure white; large.	1 75
Gloriosa. Red. Very free bloomer.	2 50
Helen Fowler. Deep pink.	1 50
Panama-Pacific. (Tropical.) Day blooming. Purple.	2 50

Marsh- or Bog-Plants

Blue Flag.	\$0.75 for 3
Giant Arrowhead. . . . . .	.50 for 3
Graceful Cattail. . . . . .	.50 for 3
Parrot Feather. . . . . .	.25 for 2
Pickrel Rush. . . . . .	.75 for 3
Primrose Creeper. . . . . .	.25 for 2
Umbrella Palm. . . . . .	.35 each
Variegated Sweet Flag.	1.00 for 3
Water Hyacinth. . . . . .	.25 for 2
Water Poppy. . . . . .	.25 for 2
Yellow Flag. . . . . .	.75 for 3

GLADIOLUS

Few Flowers are more lovely or easier to grow

There are few flowers to compare with the Gladiolus for all-round usefulness in the home-garden—and few flowers are more lovely or easier to grow. Their graceful form, attractive colors, and characteristic markings have given them the popular name of "Garden Orchids." Plant the bulbs any time after mid-April up to the end of June, setting them about 4 inches deep and 6 inches apart. For a constant supply of flowers for cutting from August to frost, make plantings every week or ten days during the spring. The varieties we offer are the choicest in their color-range, and you will not be disappointed by any of them. Our bulbs average 1½ inches and over in diameter, which is considered the very best flowering size.

5 cts. each, 50 cts. per doz., \$3.50 per 100, except as noted

Red Shades

Aflame. Huge begonia-rose bloom with back of petals brighter than the face. Very popular variety. 7 cts. each, 75 cts. per doz., \$5 per 100.

Amador. Scarlet-red with carmine feather on cream-white undertone. 9 cts. each, 85 cts. per doz., \$6 per 100.

Commander Koehl. Dark scarlet-red without markings or blotches. Large spike. 7 cts. each, 75 cts. per doz., \$5 per 100.

Dr. F. E. Bennett. Peach-red, overlaid with flame-scarlet; throat speckled ruby and creamy white. Sturdy grower.

Early Peach. Peach-red with ivory throat. Of great substance, making it a long-lasting cut-flower. 9 cts. each, 85 cts. per doz., \$6 per 100.

Friiled Champion. ★ Large, heavily ruffled bloom of clear scarlet—a very distinct self color. 10 cts. each, \$1 per doz., \$7.50 per 100.

Michigan Giant. ★ Deep salmon-orange-red with many flowers open at one time. Tall straight spike. Exceptionally pleasing. 10 cts. each, \$1 per doz., \$7.50 per 100.

Pfitzer's Triumph. A beautiful, well-liked Gladiolus with immense, wide-open salmon-scarlet flowers. 7 cts. each, 75 cts. per doz., \$5 per 100.

Red Lory. Long, straight spike with flowers of rich orange-crimson. 7 cts. each, 75 cts. per doz., \$5 per 100.

Red Phipps. A glowing bright red of translucent texture. Straight spike. 7 cts. each, 75 cts. per doz., \$5 per 100.

Scarlet Wonder. Pure deep scarlet. Mammoth flowers, many open at a time on tall, stiff stems.

Tip Top. Large, scarlet-red flowers in long spikes. Vigorous grower. 9 cts. each, 85 cts. per doz., \$6 per 100.

Pink Shades

Betty Nuthall. Flower-spikes long and graceful. Warm coral-pink, with pale orange throat.

Debonair. La-France-pink with a creamy throat touched with crimson. Fine straight spike. 7 cts. each, 75 cts. per doz., \$5 per 100.

Giant Nymph. Large; light salmon-rose. Considered one of the very best commercial and exhibition pinks.

Margaret Fulton. Rich salmon throughout except for an apricot tint in the throat. A distinct variety. 7 cts. each, 75 cts. per doz., \$5 per 100.

PINK SHADES, continued

Mrs. E. J. Heaton. Glowing salmon with cream throat. Many flowers open at a time. 9 cts. each, 85 cts. per doz., \$6 per 100.

Mrs. Frank Pendleton. Deep rose-pink, shading to pale pink in throat; large, bright crimson blotches on lower petals.

Mrs. P. W. Sisson. Very handsome pale salmon-pink variety of a most soft and appealing shade. Fine for cutting.

Mr. W. H. Phipps. La-France-pink, overlaid with salmon-rose. Enormous flowers. A real Super Glad.

Picardy. One of the best of the new Glads. The blooms are large, slightly ruffled, and a charming apricot-pink color.

Smiling Maestro. Large flowers of salmon-rose. Many florets open at once. 7 cts. each, 75 cts. per doz., \$5 per 100.

Sonatine. Deep rose self color. Very striking large flowers. 9 cts. each, 85 cts. per doz., \$6 per 100.

Orange Shades

Orange Imperator. ★ Orange-red. A beautifully formed large flower. 10 cts. each, \$1 per doz., \$7.50 per 100.

Orange Queen. (Prim.) Purest apricot of a very warm tint. Considered one of the choicest Grandiflora Primulinus.

Paradise. A luminous flower of orange-yellow. Large florets on a large spike. 9 cts. each, 85 cts. per doz., \$6 per 100.

Wasaga. Somewhat ruffled blooms of the softest apricot with a buff throat. 7 cts. each, 75 cts. per doz., \$5 per 100.

Yellow Shades

Gate of Heaven. Beautiful ruffled deep yellow blooms. Medium height. 7 cts. each, 75 cts. per doz., \$5 per 100.

Golden Dream. Pure golden yellow. An excellent variety for cut-flowers.

Yellow Perfection. Pure yellow blooms. Fine for cutting. 7 cts. each, 75 cts. per doz., \$5 per 100.

Yellow Wonder. Buttercup-yellow, slightly deeper in the throat.

Blue, Lilac, and Purple Shades

Bagdad. Immense, smoky old-rose bloom somewhat darker toward the edges and lighter toward the throat. 7 cts. each, 75 cts. per doz., \$5 per 100.

Blue Admiral. Big triangular flowers of heavy texture. The color is cornflower-blue with a small ruby blotch. 9 cts. each, 85 cts. per doz., \$6 per 100.

Blue Danube. Pure amethyst-blue with a blue feather. Large flowers. 7 cts. each, 75 cts. per doz., \$5 per 100.

BLUE, LILAC and PURPLE SHADES, con.

Charles Dickens. Purple-violet. A very good grower and choice variety. 7 cts. each, 75 cts. per doz., \$5 per 100.

King Arthur. Lovely lavender-pink. Ruffled and fluted edges give it a distinct and beautiful appearance. 7 cts. each, 75 cts. per doz., \$5 per 100.

Max Reger. ★ Best lavender-blue of today. Very attractive. 10 cts. each, \$1 per doz., \$7.50 per 100.

Marmora. Lavender-gray, with petunia-colored blotch. Ten to twelve very large flowers open at once.

Minuet. Beautiful clear, light lavender. 7 cts. each, 75 cts. per doz., \$5 per 100.

Mother Machree. Large, smoky lavender flowers, the result of a blending of lavender and orange, subdued with neutral gray. Very beautiful but hard to describe. 7 cts. each, 75 cts. per doz., \$5 per 100.

Mrs. Van Konyenburg. Matchless aniline-blue. Grows very tall. 7 cts. each, 75 cts. per doz., \$5 per 100.

Paul Pfitzer. An immense flower of brilliant velvety red-purple. A substantial bloom on a good spike. 7 cts. each, 75 cts. per doz., \$5 per 100.

Pelegrina. Deep violet-blue with a deeper violet throat. There is a dark blue velvety sheen over all. 7 cts. each, 75 cts. per doz., \$5 per 100.

Vagabond Prince. ★ The loveliest of the "smokies." Garnet-brown with a glowing scarlet spot on lower petals. Appreciated by everyone. 10 cts. each, \$1 per doz., \$7.50 per 100.

White Shades

Maid of Orleans. Creamy white with light cream shade in throat. Large flower. 7 cts. each, 75 cts. per doz., \$5 per 100.

Mary Elizabeth. ★ A heavily ruffled white with blending yellow throat. 9 cts. each, 85 cts. per doz., \$6 per 100.

Shirley Temple. ★ One of the loveliest Glads that ever came out. Enormous creamy white flower with deeper cream blotch on lower petals. A prize-winner. Tall spikes. 10 cts. each, \$1 per doz., \$7.50 per 100.

Star of Bethlehem. Very large; cream-white with well-placed open blooms. Undoubtedly the best exhibition white. 9 cts. each, 85 cts. per doz., \$6 per 100.

SCOTT'S GARDEN MIXTURE.

This mixture of standard varieties in many beautiful colors will make an excellent showing in the garden or for cut-flowers. Large, healthy bulbs, 4 cts. each, 35 cts. per doz., \$2.50 per 100.

Dahlias

It is doubtful if there are any flowers that afford as much general satisfaction as Dahlias. The ease with which they can be grown in any sunny situation, their freedom from pests and blights, their endless variety of color, size, and form, and their great usefulness for cutting as well as garden decoration insure them a permanent place in popular favor, while their low cost makes it easy for everyone to start a collection which can be added to year after year. The roots or tubers should be planted about 4 inches deep in well-dug soil during May or June. Allow at least 2 feet of space between plants. Trim out all but the strongest two or three shoots and when these are about 4 feet

high pinch off the tips to encourage branching. If extra-large exhibition blooms are wanted, remove all but one or two of the top buds on each stem. Tall plants should be tied to stakes for support. Dig roots when frost has killed the foliage in the fall, and store in sand or soil in a cool but frost-proof cellar.

The Cactus Dahlias are distinguished by narrow, quilled petals which are often curved and twisted in various forms. Decorative Dahlias include the old-fashioned formal and rather stiff show or "ball" Dahlias, and the newer broad-petaled types of enormous size.

In the following list, B indicates Ball ■ Show; C, Cactus; D, Decorative

Price, 25 cts. each, \$2.50 per doz.

A. D. Livoni. (B.) Rich seashell-pink. Attractively quilled.

Agnes Haviland. (D.) Rose-pink and yellow. Perfect form.

Bertha Horne. (C.) Bronzy yellow hybrid. Dwarf growth.

Betty Austin. (C.) Beautiful pink-rose, yellow base and tips. Spectacular.

Bonnie Blue. (B.) Bluish lilac. Fine stems.

Catherine Wilcox. (D.) Pinkish white, tipped red. A lovely bloom.

Celia. (C.) Lavender-pink. Incurved. A generous bloomer.

Floral Park Jewel. (B.) Red tipped white. Really gay.

Jane Cowl. (D.) A warm buff and old-gold bloom, with broad, slightly twisted or waved petals.

Jean Kerr. (D.) Pure white.

Jersey's Beauty. (D.) Perfect flowers of an ideal shade of pink, with long, handsome stems, making it splendid for cut-flower use. A free, early bloomer with exceptional keeping qualities.

Jersey's Beacon. (D.) Scarlet and buff. The spectacular Jersey.

Libelle. (C.) Royal purple. Very effective.

Margaret Woodrow Wilson. (D.) Creamy white, suffused pink. Pleasing.

Mrs. I. de Ver Warner. (D.) A clear, bright lilac-rose, beautifully formed.

Perle de Lyon. (C.) White. A chaste flower.

Pride of California. (D.) Red. A fine cut-flower.

Rene Cayeux. (C.) Brilliant red. Glorious.

Sagamore. (D.) Apricot-buff. A prize-winner.

Storm King. (B.) White. Free-blooming.

The Commodore. (D.) Large; canary-yellow. Compact plant.

Yellow Colosse. (D.) An excellent yellow. Fine long stems.

Prices given are postpaid. Half-dozen roots, any assortment of varieties, at dozen rates



Cactus Dahlias

Peonies

Peonies are among the most gorgeous plants that can be grown in a garden. Given a deep, rich soil and a sunny situation they will thrive anywhere. A mulch of manure each fall will help to maintain them. Plant the roots so that the eyes will be about

½ inch below the surface of the ground. Strong divisions with 3 to 5 eyes, and plenty of roots, and larger size than usually offered.

Price, 50 cts. each, \$5 per doz., except where noted

Alexandre Dumas. Creamy white collar with light violet-rose crown. Blooms early and freely and is of medium height.

Augustin d'Hour. A brilliant dark red with a silvery reflex. Medium tall plant blooming freely in midseason.

Avalanche. Milk-white with a cream-white collar and center of lilac-white; carmine spots mark the petals.

Felix Crousse. Flame-red. Large, bomb-shaped. Late midseason.

Festiva Maxima. White; very large, globular. Still one of the best. Early.

Germaine Bigot. Very large, compact blooms. Pale lilac-rose with center petals flecked crimson. Midseason.

Karl Rosenfield. Dark crimson, very brilliant and striking in color. Blooms are of semi-rose type. Midseason.

Lord Kitchener. A very early Peony of the bomb type. It is a loosely arranged bloom with prominent guard petals and is bright red throughout.

Marie Crousse. Globe-shaped blooms rather loose in form. Color pale lilac-rose.

Plants tall and free blooming. Midseason.

Mikado. Beautiful dark rose-red, edged and tipped pale buff-yellow. Considered one of the best red Japanese varieties.

Mme. Ducl. Light mauve-rose with a silvery reflex. Globe-shaped blooms, slightly fragrant. An extra-fine variety.

Mons. Jules Elie. A large flower with a high crown. Color pale lilac-rose, with an amber-yellow collar; fragrant. Early.

Oki-no-nami. Attractive pink Japanese variety.

President Roosevelt. Deep, rich, brilliant red. Blooms semi-rose type, opening midseason. 75 cts. each.

President Taft. Bold, handsome, flat, pink flower. Midseason. 75 cts. each.

Princess Beatrice. Guard and crown petals violet-rose; collar creamy white with crimson flecks. An extra-good variety blooming in midseason.

PEONIES BY COLOR. Strong-growing plants of selected varieties. Named to color, red, white, or pink. 25 cts. each, \$2.50 per doz.



President Roosevelt Peonies



The Queen of Flowers

The Rose has been for thousands of years the queen of flowers, and no garden can be complete without representatives of the different types of these lovely blooms. We list here only the best varieties of the different classes of Roses, in a quality of plant which will give the best service to our customer.

For exhibition and cut-flower purposes, the Hybrid Teas are

unsurpassed. For a sheer mass of color in the garden there is nothing like the Polyanthas. The Hybrid Perpetuals will give you quantities of large, fragrant flowers in June. Climbing Roses can serve many purposes, and every garden should have a few of the old Moss Roses and that splendid shrub Rose, *Rosa Hugonis*.

Hybrid Tea Roses

These popular flowers are crosses between the fragrant and hardy Hybrid Perpetuals and the old tender Tea Roses. They give quantities of bloom of cut-flower quality on plants which are hardy with a little protection during the winter.

They begin blooming in late May or early June, depending on the locality, and if given plenty of water, occasional applications of fertilizer, and are kept sprayed or dusted so that the foliage is free of disease or insects, will bloom practically continuously until stopped by frosts. Book of Rose culture free with every order when requested.

All of the Roses we offer are No. 1 grade, 2-year-old, hardy, northern, field-grown plants.

Red Varieties

Ami Quinard. One of the darkest Roses in existence. Velvety crimson-maroon with a soft black luster. Averages 17 petals. Carries the real old Rose fragrance. Strong-growing plants. 75 cts. each.

Charles K. Douglas. A large, loosely double Rose of bright red. It is not an exhibition Rose but for a continuous show of garden color this Rose is tops and, surprisingly, it is also fragrant. 85 cts. each.

Christopher Stone. Large, loose flowers of brilliant scarlet-crimson; rich old-time fragrance. Healthy, bushy plants which bloom all the time. 85 cts. each.

Crimson Glory. Plant Patent No. 105. Gorgeous crimson flowers shaded red and with a nap so deep the shadows are black. Grand form and unforgettable fragrance. Healthy plants of medium height bloom generously. \$1.25 each.

Etoile de Hollande. The best red Rose for garden use. Its flowers are gigantic, beautifully frilled, fragrant, and the color is deep, glowing crimson which does not fade. 75 cts. each.

Grenoble. A great big globular flower of brilliant scarlet-red on a big, bushy plant. It has hardly fragrance enough to speak of but the plants are generous with their globes of fire, and we like it. 85 cts.

McGredy's Scarlet. An excellent garden Rose which is a nice shade of red, instead of scarlet, as the name would indicate. Flowers are freely produced on very vigorous, healthy plants. 85 cts. each.

Poinsettia. This is the nearest to clear scarlet of any double Rose. The flowers are beautifully formed of 35 velvety petals and carry real old Tea fragrance. Plants are tall with healthy foliage. \$1.25 each.

Red Radiance. A sport of Radiance and equally good, differing only in the beautiful deep red color of the large globular flowers. Very hardy and of the greatest garden value. Fine fragrance. 75 cts. each.

Rome Glory. Plant Patent No. 304. A long-lasting cutting Rose with large flowers of luminous scarlet-red. Of course they are fragrant. The plants are strong and remind one of the strong Hybrid Perpetuals. \$1.25 each.

Rouge Mallerin. One of the finest formed of all red Roses. Blooms are of medium size with each velvety scarlet petal perfectly placed, and, to make them doubly valuable, they have the true old Damask fragrance. 85 cts. each.

Texas Centennial. Plant Patent No. 162. A sport of President Herbert Hoover, exactly like its parent in plant and shape of flower. The color, however, is vermillion-red with a touch of gold at the base of the petals. Flowers age a deep shade of pink. 85 cts. each.

Pink Varieties

Dame Edith Helen. One of the most remarkable Roses in the world for its giant size, multiplicity of well-placed petals, and its sparkling, pure pink color. Very handsome. 75 cts. each.

Eternal Youth. Plant Patent No. 332. Slim pink buds open to splendidly formed blooms of clear sparkling pink warmed with a yellow base to each petal. It is delightfully sweet and will be wanted for cutting. Plants 2 feet high. \$1.25 each.

Mme. Cochet-Cochet. Plant Patent No. 129. Strong plants that are very free with their shapely flowers of coppery pink warmed with orange. \$1 each.

Mrs. Henry Bowles. One of the older Roses and one of the loveliest of all in the pink range. Perfectly formed, double flowers of rosy pink flushed with salmon. Delightfully fragrant. 85 cts. each.

Mrs. Henry Morse. A two-toned pink Rose of exquisite form, making it one of the best of all pink Roses for cutting; fragrant. Moderate growth but very free-flowering. 85 cts. each.

Pink Dawn. A splendid new double Rose with rose-colored buds opening to lovely pink flowers tinted with orange at base of petals; sweetly fragrant. Strong, upright growth. 85 cts. each.

Pink Pearl. This is a grand clear pink Rose on long, clean stems and is freely produced on attractive plants. It is fully double and is one of the sweetest of all. You will like it to cut. 75 cts. each.

Radiance. Large, strongly fragrant, light silvery pink to salmon-pink flowers, borne profusely all summer on long, strong stems. 75 cts. each.

R. M. S. Queen Mary. Plant Patent No. 249. The lovely flowers of this novelty are salmon-pink suffused with orange, a warm color which is pleasing both in the garden and under artificial light when it is used as a cut-flower. Plants are very bushy and are unusually free in their bloom. \$1.25 each.

Sterling. Plant Patent No. 21. One of the most beautiful of all pink Roses. Large, fragrant flowers on long stems. Strong branching plants that bloom abundantly. A great Rose. \$1 each.



Poinsettia

Yellow Varieties

Duchess of Wellington. Lovely long orange buds open to huge loose blooms of saffron-yellow. It is a delightful old Rose and has the true Tea fragrance. The plants have heavy canes and sprawl rather than grow tall. 85 cts. each.

Eclipse. Plant Patent No. 172. The longest, slenderest yellow bud to be found among garden Roses. Open flowers are large, loosely formed, of rich golden yellow without shading. This Rose will be popular for its buds alone. \$1 each.

Golden Dawn. One of the best garden Roses, with large, very double and very fragrant flowers of pale straw-yellow. The plants are low but spreading, with beautiful foliage. 85 cts. each.

Golden Rapture. Known as Geheimrat Duisberg in Europe, this Rose is becoming popular as a florists' Rose here. Splendid form and rich yellow coloring are important features. Good plants produce freely. 85 cts. each.

Joanna Hill. A favorite cut-flower variety with shapely buds and high-centered open flowers of pale yellow; mildly fragrant. Healthy plants of medium growth. 75 cts. each.

Mrs. Erskine Pembroke Thom. Best of the clear unshaded yellow Roses. Flowers well shaped, of medium size, and richly yellow. Fine foliage and growth vigorous. Free flowering. 85 cts. each.

Mrs. Pierre S. du Pont. A deep yellow Rose that shows no signs of fading. Good foliage and a prolific bloomer. 65 cts. each.

Rev. F. Page-Roberts. A low-growing plant with shapely blooms of golden yellow with the reverse stained with red. Has the pleasing fragrance of ripe apples. A lovely cut-flower. 85 cts. each.

Ville de Paris. Tall, willowy plants topped with high-centered flowers of clear yellow. It has 27 petals and is a favorite yellow Rose for cutting. 75 cts. each.



Neville Chamberlain

Bicolor Varieties

Alezane. Plant Patent No. 116. Beautiful blooms of deep apricot with brownish tints and carrying a fruity fragrance. The stout plants are the first to bloom in the spring and are extra hardy and long lived. \$1 each.

Angels Mateu. Plant Patent No. 174. Large, double flowers of orange-old-rose, with delightful blackberry fragrance. The plants are upright, with attractive healthy foliage. \$1 each.

Autumn. A richly colored double flower of burnt-orange red, orange, and pink. Plants of medium height. A striking Rose in the fall. 85 cts. each.

Countess Vandal. Plant Patent No. 38. Stunning new Rose of coppery pink, strongly tinted with ruddy shades in the bud, opening to big, handsomely shaped flowers of striking color. \$1 each.

Duquesa de Penaranda. Great double flowers of a brownish peach-color that is distinct and beautiful. They are sweetly fragrant, too. Upright, generous-blooming plants. 75 cts. each.

Edith Nellie Perkins. One of the finest of the two-tone pink Roses, with rosy carmine on the reverse of the petals and salmon inside, all overspread with a thin golden sheen. Splendid plants, blooming freely. 85 cts. each.

Faience. Very large, loose flowers, coppery rose inside, with a reverse of pinkish yellow. The plants are big and bushy and bloom freely. 85 cts. each.

Heinrich Wendland. One of the most spectacular of all Roses, with fragrant, unfading flowers of nasturtium-red, with a deep golden yellow reverse. 85 cts. each.

Luis Brinas. Plant Patent No. 102. Orange-copper buds open to double flowers of soft old-rose, flushed with gold. The fragrance is that of new-mown hay. An unusually free bloomer. \$1 each.

McGredy's Pride. Plant Patent No. 339. A colorful Rose of orange and salmon-pink, flushed and veined saffron-yellow. The blooms are large, sweetly scented, and appear continuously from early summer until late autumn. \$1.25 each.

Mme. Jean Gaujard. Plant Patent No. 338. Creamy yellow, shaded orange and carmine-pink. There are about 30 petals and a fruity fragrance. The originator named it for his wife. Tall plants with thorny canes. \$1.25 each.

Mme. Joseph Perraud. Large, shapely flowers of nasturtium-buff, shading to shell-pink at the edges. Sweetly fragrant. One of the most beautiful Roses we have ever seen. Strong growth and unusual freedom of bloom. 85 cts. each.

Mme. Nicolas Aussel. This is a large Rose of a pleasing blending of salmon, carmine and ochre, and it is fragrant, too. Strong plants hold the flowers on long stems. 85 cts. each.

Mrs. Sam McGredy. A Gold Medal winner from the north of Ireland, with astonishing buds and flowers of glowing orange-salmon and coppery gold. One of the best of the new varieties. 85 cts. each.



Eternal Youth

Neville Chamberlain. Plant Patent No. 428. A tall-growing Rose from Belgium with burnt-orange buds opening to large blooms of salmon overlaid with bronze and touched with orange at base. \$1.50 each.

President Herbert Hoover. Enormous flowers of ever-changing color. Deep copper-red in bud, golden in the center, with deep pink outer petals. In autumn it is superb. Plants very strong, with good foliage, blooming early and often. 85 cts. each.

Signora. Plant Patent No. 201. A great new Rose of fine form on long stems. Deep orange, heavily veined carmine, edges of petals brick-orange. Fruit fragrance. 45 petals. \$1 each.

Talisman. The great florists' Rose with spectacular blooms of yellow, orange, and scarlet, changing with the season. Fragrant flowers on fine stems for cutting. 75 cts. each.

White Varieties

Kaiserin Auguste Viktoria. This old Rose is the finest of all the whites. It has form, fragrance, and is fully double. Plants are of average height and bloom. 85 cts. each.

Mrs. Francis King. Plant Patent No. 253. Large, very double flowers of clean white touched with gold at center. Wild Rose fragrance. Growth is about 30 inches in this section and it is a free bloomer. \$1 each.

Snowbird. Fully double blooms of snowy white with a creamy center. Deliciously fragrant. Plants are of moderate growth with profuse attractive healthy foliage and a continuous crop of bloom all season. The best white bedding Rose. 75 cts. each.

White Briarcliff. Plant Patent No. 108. Perfectly formed double flowers of snowy whiteness are delightfully tea-scented. Strong branching plants with lovely foliage bloom all the time from late spring until frost. \$1 each.

QUANTITY PRICES. All 65-ct. varieties, \$6.50 per doz.; 75-ct. varieties, \$7.50 per doz.; 85-ct. varieties, \$8.50 per doz.; \$1 varieties, \$10 per doz. Half-dozen plants, any assortment of varieties, at dozen rates. These prices do not apply to patented Roses. Prices given are prepaid. See page 143.

Dr. J. H. Nicolas



Climbing Roses

The modern Climbing Rose is one of the most adaptable and most satisfactory of all flowering plants. There are many types to choose from and for covering trellises, arches, fences, walls, or sides of buildings, they are unsurpassed.

Blaze. Plant Patent No. 10. The blazing red blooms are produced in clusters for several weeks during the Rose season, and a second crop of flowers may be expected before freezing weather arrives. \$1 each.

Climbing American Beauty. Moderately fragrant, rich rosy carmine, 3 to 4-inch blooms on long stems, on a vigorous, hardy plant. 65 cts. each.

Dr. J. H. Nicolas. Plant Patent applied for. An everblooming Rose with large double blooms of deep rose-pink. They resemble Hybrid Tea flowers and bloom in clusters of 3 or 4 on long stems. Delightfully fragrant. Canes grow 8 to 10 feet making a splendid pillar Rose. \$1.50 each.

Dr. W. Van Fleet. Perfectly formed shell-pink flowers on long stems. A strong grower which blooms freely. 65 cts. each.

Doublons. Plant Patent No. 152. A handsome yellow Climber developed from the native Prairie Rose, which makes it harder than any other yellow Climber. \$1 each.

Flash. Plant Patent No. 396. Large, double flowers, orange-scarlet inside with a yellowish reverse. \$1 each.

New Dawn. Plant Patent No. 1. The blooms are produced freely from the opening of the season in June until cold weather. The color is a delicate blush-pink, and long stems make the clusters desirable for interior decorations. Foliage is dark green and glossy. \$1.50 each.

Paul's Scarlet Climber. Clusters of semi-double, vivid scarlet flowers shaded crimson, that retain their color till they fall. Hardy and floriferous. 65 cts. each.

Silver Moon. Immense, semi-double, pure white blooms 4 inches across, intensified by golden yellow stamens, are borne on long, stiff stems. 75 cts. each.

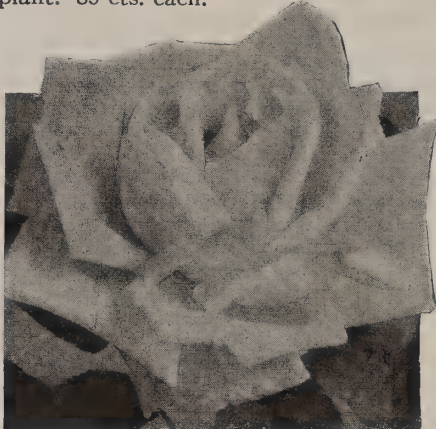
Polyantha Roses

These dwarf Roses produce an abundance of bloom all season. The plants average 18 inches in height and are especially valuable for a hedge or border or for massing for spectacular decorative effect.

Price, 75 cts. each except where noted

Anne Poulsen. Plant Patent No. 182. Large, semi-double, fragrant flowers of scarlet-crimson are produced in large sprays on plants of Hybrid Tea growth. One of the brightest.

Betty Prior. Plant Patent No. 340. Single flowers shell-pink on face with a red reverse. Blooms in clusters on a 3-foot plant. 85 cts. each.



Frau Karl Druschki

Donald Prior. Plant Patent No. 377. Deep red blooms of 8 petals borne in clusters on 3-foot plants. Flowers are 3 inches across. 85 cts. each.

Else Poulsen. Lovely, semi-double flowers of bright rose-pink, borne in clusters. The blooms are slightly fragrant and nice for cutting. Strong growth.

Gloria Mundi. Vivid orange-scarlet. Free flowering.

Miss Edith Cavell. Large clusters of small, semi-double, brilliant scarlet-red flowers, shaded darker.

Mrs. R. M. Finch. Big, bushy plants are covered all the time with large, semi-double flowers of rosy pink.

Permanent Wave. Plant Patent No. 107. Blooms are large, semi-double, fragrant, and carried in clusters on long stems. The color is a brilliant carmine.

Triomphe Orleanais. Semi-double, cherry-red flowers of medium size in clusters. 2 ft.

White Lafayette. Pure white, semi-double flowers in clusters all season. The best white Polyantha. 2 ft.

World's Fair. Plant Patent No. 362. Large, fragrant, semi-double flowers of velvety scarlet with blackish shades in autumn. Bushy plants 30 inches tall. \$1 each.

Hybrid Perpetual Roses

These are much hardier, stronger growing plants than the Hybrid Teas and bear an immense crop of bloom in June.

Price, 65 cts. each

Frau Karl Druschki. An immense, pure white, perfectly double Rose, which blooms all season.

Henry Nevard. Nicely formed blooms of crimson-scarlet. Sweetly fragrant. Fine plants.

Georg Arends. Immense, soft pink, fragrant blooms of fine form. Called a "Pink Druschki." A beautiful Rose.

Mme. Albert Barbier. Soft fawn-yellow flowers, paling to white, with pinkish shades in center; double; cupped.

Ulrich Brunner. Large, cupped flowers of carmine-red, deliciously fragrant.

Shrub Rose

Rosa Hugonis. Flowers light yellow, about 2 inches across, borne on long, slender branches. Generally in full bloom Decoration Day. 75 cts. each.

Trailing Rose

R. Wichuraiana. Pliable canes with small shiny foliage and small white fragrant flowers. A fine bank cover. 65 cts. each.

Moss Roses

A group of old-fashioned Roses of moderate growth, readily recognized by the mossy coating which surrounds the calyx of the bloom. Very attractive.

Price, 75 cts. each

Salet Moss. Large, full flat blooms of rosy pink.

Crested Moss. Beautifully mossed pink buds and double pink flowers.



Rosa Hugonis



Clematis



Wisteria



Silver Lace Vine

VINES

Well-placed vines make a wonderful addition to the looks of the home or garden. By softening the sharp corners of the buildings and porches, they add a charm not otherwise obtainable. Vine-draped trees and pergolas have a peculiarly appealing grace not easily

BITTERSWEET (*Celastrus scandens*). Bold vine with large foliage hung in autumn with clusters of orange and yellow berries which are very decorative all winter. 40 cts. each, \$1.10 for 3.

BOSTON IVY (*Ampelopsis Veitchii*). High-climbing, clinging, deciduous vine with lustrous, three-pointed leaves 2 to 4 inches across. 45 cts. each, \$1.25 for 3.

CINNAMON VINE. A long-lived, vigorous climber with broad heart-shaped leaves and clusters of white, cinnamon-scented flowers. Dies down to the ground each winter but comes up again very quickly in the spring. Large roots, 10 cts. each, \$1 per doz., \$7 per 100.

CLEMATIS Jackmani. Large, flat, 3 to 4-inch, velvety purple flowers, freely produced and highly prized because of their beauty and splendor. 85 cts. each.

paniculata. Sweet Autumn Clematis. In August or September the plants are densely covered with fragrant white flowers, followed by seeds, each of which has a grayish, fuzzy plume which gives the plant the appearance of being in bloom until winter comes. 45 cts. each, \$1.25 for 3.

Mme. Edouard Andre. Large bright carmine-violet flowers. Unusual and distinct. 85 cts. each.

DUTCHMAN'S PIPE (*Aristolochia sipho*). A fast-growing vine with 6 to 15-inch broadly reniform leaves and pipe-like flowers. \$1 each.

SCARLET TRUMPET VINE. Vigorous climber. Handsome, trumpet-shaped, reddish orange flowers in midsummer. 35 cts. each, 95 cts. for 3.

described, and some of the vines are particularly valuable in covering banks. The following are highly desirable vines. They are all strong, 2-year-old No. 1, field-grown plants, with good root-systems, except Cinnamon Vine and Madeira Vine which are roots.

HONEYSUCKLE (*Lonicera*), **Halliana**. Dark green foliage with attractive, sweetly scented flowers, produced from July to frost. Desirable for trailing over fences, arbors, and as a ground-cover for banks. 30 cts. each, 80 cts. for 3.

KUDZU VINE. One of the fastest-growing hardy vines. Foliage large. Small racemes of rosy purple, pea-shaped flowers in August. Fine for permanently covering verandas, dead trees, etc. 35 cts. each, 95 cts. for 3.

MADEIRA VINE. Rapid-growing climber that quickly covers porch, trellis, arbors, stumps, etc. Foliage light green; flowers white, small and feathery, delightfully fragrant. Plant roots in May. Large roots, 10 cts. each, 25 cts. for 3, 75 cts. per doz.

SILVER LACE VINE (*Polygonum Auberti*). Rapid climber. Light green, waxen foliage. Curious, stringy clusters of crystal-white flowers of irregular shape. 60 cts. each, \$1.65 for 3.

TRUMPET CREEPER (*Bignonia radicans*). The Bignonias are very useful for covering unsightly places, stumps, rockwork, or for planting in crevices in ledges. Large, attractive, scarlet flowers are borne in profusion. 35 cts. each, 95 cts. for 3.

VIRGINIA CREEPER (*Ampelopsis quinquefolia*). One of the best and quickest-growing vines for covering trees, trellises, arbors, etc. The large deep green foliage turns yellow, crimson and scarlet in fall. 35 cts. each, 95 cts. for 3.

WISTERIA sinensis. Handsome, showy, pea-like pale blue flowers in large grape-like clusters. Well adapted for training on porches, arbors, trellises, or trees. They require a deep rich soil. Strong, 2-yr., grafted plants, 75 cts. each, \$2 for 3.

HEDGE PLANTS

Hedges or living fences make the most artistic boundaries for the farm, to mark the line between highway and farm, to define the driveways or enclose the home-grounds. They add much to

CALIFORNIA PRIVET (*Ligustrum ovalifolium*). A rapid grower with dark green foliage that persists until early winter. May be pruned to any shape. Unpruned, it assumes an upright, spreading habit, about 10 feet tall. 12 to 18-in. plants, \$1 for 25, \$3.50 per 100, \$16 for 500.

IBOLIUM PRIVET. A hybrid of California and Ibota Privet and is harder than either. Fast upright grower. Dark green foliage. May be trimmed to any shape. 12 to 18-in. plants, \$2 for 25, \$7 per 100.

the value of the place. Once planted they require little attention. These are strong, thrifty, attractively shaped plants that will make desirable specimens on your lawn.

JAPANESE BARBERRY (*Berberis Thunbergi*). Compact-growing, much-branched low shrub with many spines. Its red berries persist until spring. 12 to 18-in. transplanted plants, \$1.50 for 10, \$7 for 50, \$12 per 100.

RED-LEAVED BARBERRY (*Berberis Thunbergi atropurpurea*). Exactly like the well-known Japanese Barberry except that the foliage is rich crimson, becoming brilliant scarlet when the sun falls on it. 18 to 24-in. plants, 25 cts. each, \$2.25 for 10.

Prices given are prepaid where the order amounts to \$2 or more. See page 143

HARDY FLOWERING SHRUBS

Flowering shrubs bring the greatest return on investment that one can put into the home-grounds. They thrive with but little care; are attractive even in winter when the branches are without foliage; and when they do burst into bloom transform the grounds into bowers of scented beauty. In addition to their lovely flowers many shrubs develop attractive fruit which lasts well into the winter.

We offer a fine list for planting this spring.

ABELIA grandiflora. The Bush Arbutus is a medium-sized shrub with lovely glossy foliage and tubular flowers of pinkish white. Graceful when grown naturally and can be sheared to any height. Makes a grand hedge. 90 cts. each.

ALTHÆA. Rose of Sharon. A very useful shrub with large, single or double flowers in great profusion in late summer, a time when flowering shrubs are scarce.

Pink, Purple, Red, White, or Variegated. 2 to 3 ft., 50 cts. each, \$1.35 for 3.

ALMOND, Flowering (*Amygdalus*). Double fragrant flowers in May. **Pink or White.** 2 to 3 ft., 75 cts. each, \$2 for 3.

ARONIA arbutifolia brilliantissima. The Crimson Chokeberry has bright red berries and crimson leaves in fall. Grows 10 to 12 feet. 1½ to 2 ft., 65 cts. each.

melanocarpa. The Black Chokeberry grows slightly lower and bears glossy black berries. 2 to 3 ft., 75 cts. each.

AZALEAS. These hardy Azaleas bloom with the utmost freedom, becoming solid masses of flowers at their season, and continuing in splendor for several weeks. Plant in slight shade and sheltered from severe winter.

Amœna. Brilliant reddish purple flowers completely cover every twig. Very showy. Evergreen. B&B. \$2.75 each.

Hinodegiri. A sparkling red variation of Amœna, with no trace of the purple. Evergreen. B&B. \$2.75 each.

mollis. A dwarf, very bushy, deciduous variety. Flowers light yellow to apricot and deep orange. B&B. \$1.50 each.



Beauty Bush

BEAUTY BUSH. An exceedingly handsome ornamental shrub. The foliage and habit are attractive when the bush is out of flower and it is perfectly hardy. It grows 6 to 9 feet high when mature, with long, arching branches. Covered in spring with clusters of small, tubular flowers of the honeysuckle type, borne in such profusion that the bush is one cloud of delicate pink. 2 to 3 ft., 90 cts. each.

BUDDLEIA, Ile de France. A new variety with fragrant, rosy purple flowers suffused with violet, borne in spikes 6 to 9 inches long. The symmetrical bushes are 3 to 4 feet high. 50 cts. each, \$1.35 for 3.

CALYCANTHUS floridus. Sweet Shrub. This is the popular old-fashioned "Strawberry Shrub," with brown, slightly scented, starry flowers, followed by pods of smooth brown seeds. 2 to 3 ft., 60 cts. each, \$1.60 for 3.

COTONEASTER divaricata. The Spreading Cotoneaster will grow to 6 feet and as wide. Pink flowers are followed by red fruit and foliage turns red in fall. 15 to 18 in., B&B. \$1.50 each.

DEUTZIA, Pride of Rochester. A very popular bluish-white form, growing taller and bushier than *D. gracilis*. 2 to 3 ft., 50 cts. each, \$1.35 for 3.

gracilis. A small shrub covered with pure white flowers in graceful nodding racemes. Good for edging borders. 15 to 18 in., 40 cts. each, \$1.10 for 3.

DOGWOOD, Coral (*Cornus alba sibirica*). An upright shrub having bright coral-red branches with dark green leaves, pale beneath, and creamy white flowers in numerous flat-topped clusters, followed by bluish fruits. 2 to 3 ft., 50 cts. each, \$1.35 for 3.

florida. The well-known white-flowering Dogwood. Big, spreading shrub or small tree with large white flowers in spring. Foliage scarlet in autumn. Rich red berries. B&B. \$2 each.

florida rubra. One of the loveliest flowering trees. Blooms glowing peach-blossom-pink, tinged darker. A specimen in full bloom is a magnificent spectacle. 3 to 4 ft., B&B. \$3.50 each.

EUONYMUS alatus. Winged Burning Bush. Bushy shrub with corky winged branches. A fine shrub for specimen planting. Leaves turn to rich red and crimson in autumn. 2 to 3 ft., \$1 each.

europæus. A strong-growing shrub or small tree with finely toothed foliage and pink fruit. 2 to 3 ft., 75 cts. each.



Deutzia gracilis

ELÆAGNUS argentea. Silverberry. Fragrant flowers and attractive foliage, silvery on both sides, on a 10-foot shrub. 2 to 3 ft., 75 cts. each.

FORSYTHIA. One of the very earliest shrubs to bloom and unsurpassed in splendor and brilliancy by other spring-flowering varieties.

spectabilis. Sturdy, erect bush with an unbelievable abundance of golden yellow flowers a shade or two darker yellow than any other variety. 2 to 3 ft., 45 cts. each, \$1.25 for 3.

suspensa Fortunei. A tall, willow shrub literally covered with golden bells in early spring. 45 cts. each, \$1.25 for 3.

HONEYSUCKLE, Red Tatarian (*Lonicera tatarica sibirica*). A bushy shrub, reaching 10 feet, with crimson flowers in June, followed by red fruits. 2 to 3 ft., 45 cts. each, \$1.25 for 3.

White Tatarian (*L. tatarica alba*). About the same as the above except that the flowers are white. 2 to 3 ft., 45 cts. each, \$1.25 for 3.

HYDRANGEA, Nicko. Blue Hydrangea. One of the most showy of all plants. When planted in moist soil, flowers may assume a pinkish hue, but blue flowers may be assured by mixing alum with the soil. 1½ to 2 ft. B&B. \$1.25 each.

paniculata grandiflora. Big conical trusses of white flowers that soon assume rose and bronze tones, are borne in late summer and last till frost. Severe pruning in early spring brings big trusses of bloom. 18 to 24 in., 50 cts. each, \$1.35 for 3. 2 to 3 ft., 65 cts. each, \$1.75 for 3.

INDIAN CURRANT (*Symphoricarpos vulgaris*). Tall, slender shrub, with coral-red fruits. 2 to 3 ft., 35 cts. each, 95 cts. for 3.

JAPAN QUINCE (*Cydonia japonica*). Often called "Fire Bush." Scarlet and vivid pink flowers. Very early. 1½ to 2 ft., 45 cts. each, \$1.25 for 3.

PRICES GIVEN ARE PREPAID. See page 143

KERRIA japonica. From June to October this shrub is a golden yellow bouquet, 3 to 4 feet high. Smooth green bark. 1½ to 2 ft., 75 cts. each.

LILAC (*Syringa*).

Persica. Persian Lilac. Lavender-blue flowers in loose panicles. Delightfully different. 2 to 3 ft., 75 cts. each.

Vulgaris. The fragrant old Lilac found blooming in May in old gardens.

Purple. 2 to 3 ft., 50 cts. each.

White. 2 to 3 ft., 75 cts. each.

Lilac. Named French varieties:

Belle de Nancy. Double flowers of satiny rose in long clusters.

Ludwig Spaeth. Deep reddish purple flowers in long clusters. Very unusual.

Mme. Lemoine. Narrow clusters of double flowers of purest white.

President Grey. Double, rosy blue flowers in pyramidal clusters.

Above 4 Lilacs, Bush form, 90 cts. each

MOCK ORANGE, Virginal (*Philadelphus virginialis*). A vigorous, tall grower, with very large, double-crested, pure white, sweetly scented flowers. A decided improvement over the old-fashioned Mock Orange. 2 to 3 ft., 60c. each; 3 to 4 ft., 75c. each.

PUSSY WILLOW. Furry catkins so popular in early spring for table decoration. 3 to 4 ft., 75 cts. each.

RHAMNUS Frangula. Glossy Buckthorn. Large shrub with glossy leaves and red fruit eventually turning black. 2 to 3 ft., 65 cts. each.

RHODOTYPOS kerrioides. White Kerria. Very ornamental, medium-sized shrub with pretty foliage and large, single white flowers in late May. Black berries. 2 to 3 ft., 50 cts. each.

SNOWBALL (*Viburnum opulus sterile*). The old-fashioned Snowball. White flowers in May and June. Very decorative. 1½ to 2 ft., 60 cts. each.

Japan (*V. tomentosum plicatum*). Large, globular, pure white flowers in May and June. The fall foliage is especially fine. 2 to 3 ft., 90 cts. each.

SNOWBERRY (*Symphoricarpos racemosus*). Small, rose-colored flowers in June and July followed by large clusters of pearly white fruit which endure into the winter. 2 to 3 ft., 35 cts. each, 95 cts. for 3.



Mock Orange, Virginal

SPIRÆA, Anthony Waterer. Bright rosy crimson flowers in dense corymbs produced abundantly from July till frost. Fine for facing plantings of larger shrubs or edging walks. 1 to 1½ ft., 35 cts. each, 95 cts. for 3.

Van Houttei. The arching branches bend to the ground under many corymbs of small white flowers. 2 to 3 ft., 25 cts. each, 65 cts. for 3.

STEPHANANDRA flexuosa. A graceful shrub seldom more than a few feet high. An excellent plant for growing in the shade of other shrubs or trees. 2 to 3 ft., 50 cts. each, \$1.35 for 3.

TAMARIX africana. A very distinct variety covered with sprays of delicate soft pink flowers during July and August, when few other shrubs are blooming. 2 to 3 ft., 50 cts. each.

VIBURNUM acerifolium. Shrub, attaining 5 feet, with slender, upright branches. Flowers yellowish white; fruit almost black. Grows well under trees. Foliage dark purple in autumn. 2 to 3 ft., \$1.25 each.

americana. Cymes of white flowers in May and June followed by brilliant scarlet fruit. Grows to 10 feet. 75 cts. each.

Carlesi. Fragrant Viburnum. Clusters of fragrant pink flowers appear in May. Plant grows to about 6 feet high. 1½ to 2 ft., B&B. \$2.25 each.

Opulus. High-Bush Cranberry. Maple-like foliage and large heads of white flowers in May or June followed by scarlet berries. 1½ to 2 ft., 75 cts. ea.

WEIGELA, Abel Carriere. Brilliant deep pink. Blooms in May and June and again in the fall. Dark green foliage. 2 to 3 ft., 65 cts. each.

Eva Rathke. An upright shrub 5 to 6 feet high, covered in late May with an abundance of rich reddish purple, trumpet-shaped flowers. 2 to 3 ft., 75 cts. each, \$2 for 3.

floribunda. A tall, graceful shrub bearing lovely dark crimson flowers. 2 to 3 ft., 65 cts. each, \$1.75 for 3.

Hendersoni. Very large flowers of pink and white. A vigorous, tall-growing, nicely shaped bush. 2 to 3 ft., 65 cts. each, \$1.75 for 3.

WINTERBERRY (*Ilex verticillata*). Brilliant berries in great profusion. Especially attractive after the foliage drops. 1½ to 2 ft., 75 cts. each.

Ornamental and Shade Trees

CATALPA Bungei. Umbrella-shaped trees on straight trunks. Heart-shaped leaves. Good for formal effects. 5 to 6 ft., \$1.50 each.

CHERRY, Japanese. Spring-flowering, bearing a profusion of blossoms of exquisite effect. Very popular.

James H. Veitch. Double; pink.

Kwanzan. Double; dark pink.

Mt. Fuji. Double; pure white.

All Japanese Cherries, 3 to 4 ft., \$1.75 each



Japanese Cherry Blossoms

CRAB, Bechtel's Double-flowering (*Malus*). Delicate pink blossoms in the spring and handsome fruits in the fall, which are attractive to the birds. 3 to 4 ft., \$1.50 each.

ELM, Chinese. A quick-growing Elm of pleasing form and apparent freedom from blight. 8 to 10 ft., \$2.50 each.

Vase. A type developed from the American Elm. Largely used for street planting and the home-grounds. 8 to 10 ft., \$1.75 each.

JUDAS TREE (*Cercis canadensis*). The American Redbud is a fine small tree with masses of rosy pink flowers before the foliage. 3 to 4 ft., 90 cts. each.

MAGNOLIA Soulangeana. Immense saucer-shaped flowers, purplish pink on the outside and white inside. The queen of flowering trees. 2 to 3 ft.; B&B. \$3 each.

MAPLE, Silver. Noble 80-foot shade tree with dense branches and beautiful pointed foliage silvery on the under side. 8 to 10 ft., \$1 each.

MOUNTAIN-ASH. 8 to 10 ft., \$2.50 each.

MULBERRY, Teas' Weeping. Round-headed tree with drooping branches; resembles an open umbrella. 2-yr. heads, 5 to 6-ft. stem, \$3 each.

PLUM, Red-Leaf (*Prunus Newporti*). This little tree has deep purple leaves which retain their color until fall. In the spring it is covered with fine deep pink flowers. 4 to 5 ft., \$1 each.

POPLAR, Bolleana. The white or Silver-Leaf Poplar. A columnar tree with foliage silvery gray underneath. 6 to 8 ft., \$1.25 each.

Lombardy. Slender, erect trees, planted for landscape effect and screens. 8 to 10 ft., 90 cts. each.

SYCAMORE or PLANE, European (*Platanus orientalis*). Useful for street and specimen planting. Bright green foliage. 8 to 10 ft., \$2.25 each.

WILLOW (*Salix babylonica*). The Weeping Willow is our most graceful tree for moist ground, especially fine near a pool or brook. 8 to 10 ft., \$1.75 each.

Rock-Garden and Hardy Perennial Plants

Hardy perennial flowers are depended on to give the garden continuity from year to year and to afford that appearance of settled contentment and quietude which comes with their increased size and reappearance in the same places year after year.

If the ground is well prepared by deep spading and fertilizing, they will need little attention beyond keeping the surface hoed and the weeds pulled for the first year—after that they are usually big and strong enough to take care of themselves.

One of the fine things about a rock-garden is that each pocket of soil can be made up to suit the particular plant you want there. In this way one can have rare treasures that would not live in an ordinary garden.

Price, 25 cts. each, 65 cts. for 3, \$2.50 per doz., except where otherwise noted. Prices given are prepaid where the order amounts to \$2 or more. See page 143.

Varieties marked **R** suitable for Rock-Gardens



Arabis alpina



Bellis perennis



Dianthus barbatus

AQUILEGIA (Columbine), Mixed Hybrids. Wonderful colors; very long-spurred flowers.

ARABIS alpina. Rock Cress. White flowers borne in dense masses. They are easily grown and bloom in early spring.

ARMERIA Lauchiana rosea. Thrift; **R** Sea Plant. Rosy red. Grows 3 to 6 inches high. Blooms May and June.

BELLIS perennis. Double Daisy. Low-growing, spring-flowering, semi-hardy perennial that is good for shady places. White, Pink, and Red.

CAMPANULA calycanthemata. Cup-and-Saucer. Large, double flowers resembling a cup and saucer. Mixed colors.

R carpatica. Bellflower. Blue. A pretty species grown in compact tufts not exceeding 8 inches.

Medium. Single Canterbury Bells. Mixed colors.

CARNATION, Hardy Border. A good hardy strain for outdoor culture. Flowers in a great variety of colors are borne from May to October.

CENTAUREA montana. Hardy Cornflower. Grows 2 feet high. Violet-blue flowers from July to September.

CERASTIUM tomentosum. Snow-in-Summer. A low-growing plant having silvery white foliage; an abundance of snow-white flowers.

CHEIRANTHUS Allioni. The Siberian **R** Wallflower is a biennial and grows about 18 inches high. The small, vividly orange flowers are among the showiest things in nature.

CHRYSANthemums, Hardy. Bloom after other flowers have gone.

Bronze, Pink, Red, White, Yellow.

COREOPSIS grandiflora. Tickseed. Bright yellow single flowers on long, branching stems. Will bloom all summer if flowers are kept cut.

DAPHNE Cneorum. Garland Flower. **R** Unusually attractive, dwarf, bushy evergreen plant bearing bright pink flowers at tip of every branch during May and August. 7 to 9 inches. 75 cts. each, \$7.50 per doz.

DELPHINIUM, Gold Medal Hybrids. Hardy Larkspur. Very long spikes of the choicest colors.

Wrexham Hollyhock-flowered Strain. Blue, white, and pink combinations—many of them bicolor.

Belladonna. Light sky-blue.

Bellamosa. Dark blue.

Pacific Giants. New. Large, well-formed flowers in shades of blue, lavender, pink and clear white. 50 cts. each.

DIANTHUS barbatus. Hardy Sweet William. Large heads of red, white, and pink flowers in early summer.

R deltoideus rosea. A beautiful little plant with narrow leaves bearing a profusion of small crimson flowers.

plumarius. Hardy Pinks. Low-growing, grass-like foliage; flowers clove-scented; wide range of colors.

DICENTRA spectabilis. Bleeding-Heart. An old-fashioned favorite. Its long racemes of graceful, heart-shaped pink flowers are always attractive. 50 cts. each, \$1.35 for 3.

eximia. Finely cut foliage and showy racemes of pretty pink flowers. 50 cts. each, \$1.35 for 3.

DIGITALIS. Foxglove. Spikes of tubular flowers in mixed colors, White, Rose, and Purple.

GAILLARDIA grandiflora, Mixed. Blanket Flower. Large orange-yellow, scarlet, and crimson flowers in profusion. Very valuable for cutting.

GEUM (Avens), Mrs. Bradshaw. A **R** splendid new variety with large, double flowers of fiery red.

Lady Stratheden. New. Double; rich golden yellow.

GYPSOPHILA. Baby's Breath. Small white flowers on branched stems so thick as to give the plant a white lace-like effect. Excellent for cut-flowers.

Bristol Fairy. Double pearly white flowers larger than the old-fashioned type, and produced abundantly all season. Very lovely for cutting. 50 cts. each, \$1.35 for 3.

HEUCHERA sanguinea. Coral Bells. Bright crimson flowers from June to September. Very free flowering.

HIBISCUS. Marsh Mallow. Strong, almost shrubby plants with gigantic red flowers.

HOLLYHOCKS, Double Mixed (Althaea rosea). Bold, spire-like stalks of bloom varying from red to white, also yellow.

IBERIS gibraltaria. Hardy Candytuft. **R** Compact; lilac flowers.

sempervirens. Pure white flowers in spring. Dark glossy evergreen leaves. Fine edging plant.

IRIS, German. Flag. Superbly colored varieties of this popular garden plant. 20 cts. each, 50 cts. for 3, \$1.75 per doz.

Japanese. White, gold, or blue flowers; very attractive. 30 cts. each, 85 cts. for 3.

Siberian. A free-blooming Iris with graceful blue or white flowers in June.

ROCK-GARDEN AND HARDY PERENNIAL PLANTS, continued

LILY-OF-THE-VALLEY. A dainty plant for shady places. Fragrant, bell-like, white flowers in May. A good ground-cover. 20 cts. each, 3 for 50 cts.

R LINUM. Flax. A desirable plant for border or rockery, growing 2 feet high. Light, graceful foliage and large flowers all summer.

LUPINUS polyphyllus, Mixed. Grows 2½ to 3 feet tall and produces White, Pink, or Lavender-Blue flowers.

Russell. A new strain of Lupins with colors never before seen in this popular flower. There are pure yellow, orange, bright crimson, and spectacular bicolors. The plants are strong and bear wonderful spikes of these colorful flowers. 50 cts. each.

MERTENSIA virginica. Blue Bells. Drooping clusters of light-blue flowers changing to pink. 35 cts. each, 3 for \$1.

MYOSOTIS palustris. Forget-me-not. **R** A lovely dwarf plant for damp places. Spreads rapidly and carpets the ground.

PAPAVER nudicaule. Iceland Poppy. Grows 1 foot high, with very pretty single, crinkled flowers in White, Salmon, Yellow, or Orange.

orientale. Oriental Poppy. Immense, single, bright scarlet flowers in spring.

PHLOX. A universal favorite and the most showy of garden plants. They grow 2 to 3 feet high, according to variety, and have large heads of bloom. Thrive in a cool, moist, well-drained soil.

B. Comte. Dark red.

Beacon. Brilliant cherry-red.

E. I. Farrington. Salmon-pink.

Enchantress. Salmon-pink.

Ethel Pritchard. Lavender-blue.

Feuerbrand. Brilliant vermilion-scarlet.

George Stipp. Carmine with violet-pink center. 35 cts. each.

Hauptmann Koehl. Dark blood-red. 35 cts. each.

Johnston's Favorite. Crimson.

Miss Lingard. Pure white, pale pink centers. The most popular and earliest white.

Mrs. Jenkins. Large; pure white.

R Ovata caroliniana. Mountain Phlox. Reddish pink flowers in May and June.

Painted Lady. Silvery pink with salmon shadings and red eye.

Rijnstroom. Rose-pink.

Rokoko. Large, clear soft pink flowers. 35 cts. each.

Thor. Salmon-pink, suffused scarlet.

PHLOX subulata. Moss or Mountain **R** Pink. An early spring-flowering, moss-like plant with evergreen foliage.

Alba. Pure white.

Atropurpurea. Deep carmine-red. Very striking.

Rosea. Rose-pink.

Vivid. Bright pink, fiery red eye.

PLATYCODON grandiflorum. Balloon Flower. Large, showy, steel-blue flowers the whole season. Excellent for borders,

PRIMULA veris. Hardy Primrose. This strain includes various shades of violet-purple and lilac, as well as buff-orange and salmon.

PYRETHRUM hybridum. Persian or Painted Daisy. A good hardy perennial with fern-like foliage. Fine for cutting or planting in the hardy border. Mixed colors.

SCABIOSA caucasica. Pin-Cushion Flower; Mourning Bride. Flowers a soft shade of lavender. Grows 1½ to 2 feet high and blooms from June to September.

SEDUM acre. Golden Moss. Low, **R** tufted perennial that spreads over the ground. Bright yellow flowers.

album. A beautiful, glistening, waxy sort of plant of great vigor with delicate, frost-like flowers in midsummer.

kamtschaticum. A bold, leafy plant 6 inches high with broad heads of brassy yellow flowers.

lydium. Bronze foliage. Pink flowers in July.

sarmentosum. Rapid-growing plant with yellowish green foliage and yellow flowers in May and June.

Sieboldi. Round, succulent glaucous foliage. Bright pink flowers in August and September.

spectabile. One of the prettiest erect-growing species with broad, light green foliage and immense heads of handsome, showy, rose-colored flowers.

stoloniferum. One of the most desirable. Evergreen leaves and purplish pink flowers in July and August.

SHASTA DAISY (Chrysanthemum maximum), Alaska. Pure white blooms 4 to 5 inches across with yellow centers.

TRITOMA Pfitzeri. Red-Hot Poker. Spikes of orange-scarlet flowers.

VERONICA. Speedwell. A low-growing perennial on the foxglove order. Blue flowers.

Rincana. Silvery gray foliage and spikes of violet-blue flowers in July and August.

VINCA minor. Hardy Myrtle. A tufted, **R** evergreen, half-trailing plant. Dark, leathery foliage and large, purple-blue flowers. Useful in dry, shady places.

VIOLA. Tufted Pansies. Best edging **R** plant for hardy perennial border. Will bloom from May to October.

Admiration. Giant deep blue-purple.

Apricot. Exquisite apricot-yellow.

Jersey Gem. Rich pure violet.

Mauve Queen. Light blue.

Rosy Gem. Rosy pink.

White Perfection. Fine white.

Yellow Perfection. Fine yellow.

YUCCA filamentosa. Adam's Needle. Broad, sword-like, evergreen foliage and large, drooping, creamy white flowers on stems about 6 feet high.

filamentosa Hockerii. Variegated leaves. 45 cts. each,



Delphinium, Pacific Giants



Sedum acre



Phlox subulata, Vivid

FRUIT TREES

In making the selection of fruits to offer our customers, we believe the following varieties will give the best results. All fruit trees offered are No. 1 grade, two-year-old budded trees. Prices given are prepaid where the order amounts to \$2 or more. See page 143.



Baldwin Apple

Apples

65 cts. each, \$6 for 10

- Baldwin.** Best all-round winter Apple in northern counties.
Delicious. The finest dessert Apple imaginable; midwinter.
Duchess of Oldenburg. Tart; midsummer.
Early Harvest. Fruit yellow; flesh white, crisp and juicy. Good for cooking. Early summer.
Grimes Golden. Delicious flavor all its own; early winter.
Hyslop Crab. Fruit dark red, borne in clusters. The most popular variety for jelly.
Jonathan. Beautiful red spicy-flavored fruits; early winter.
Maiden's Blush. Pale yellow with red cheek. Late fall.
McIntosh. Spicy; bright red; late fall sort.
Northern Spy. Desirable winter sort for northern counties.
Red Astrachan. Best summer dessert and cooking Apple.
Rome Beauty. Handsome fruits of good quality; midwinter.
Stayman Winesap. Dark red, juicy, high-quality winter Apple.
Wealthy. High-quality, early fall sort.
Whitney Crab. Large fruit; yellow striped red.
Yellow Transparent. Earliest ripening Apple; good cooker.

Pears

75 cts. each, \$7 for 10

- Bartlett.** Without doubt the best dessert and canning Pear.
Clapp's Favorite. Superb large yellow fruits; early.
Duchesse d'Angouleme. Big, rich-flavored fruits; late.
Kieffer. A fine culinary Pear; keeps well in storage.
Seckel. Small, delicious fruits; extremely popular.
Sheldon. Not large, but one of the best Pears. Sweet, delicious flavor.

Plums

75 cts. each, \$7 for 10

- Bradshaw.** Fine, large, early, juicy Plum; early August.
German Prune. High-quality fruits; stands more frost than others; late August.
Green Gage. Large, greenish fruits, fine for canning.
Italian Prune (Fellenberg). Delicious, juicy flesh; fine for drying.
Lombard. Handsome reddish fruits with pleasant, juicy flesh.
Shropshire Damson. Like Damson but larger, fine for butter.
Yellow Egg. Oval fruit of rich golden yellow.

Peaches

35 cts. each, \$3.25 for 10, except as noted

- Belle of Georgia.** Midseason. White. Freestone.
Crawford Early. Yellow and of unexcelled quality.
Crawford Late. A fine yellow Peach of finest flavor.
Elberta. The standard yellow; large, highly flavored, juicy fruits in early September.
Hardee. About the same size and color as Elberta, possibly a little more yellow; the flavor is, if anything, superior. Its outstanding merit, however, is that it is hardy, both in bud and wood, far beyond other varieties. 85 cts. each.
J. H. Hale. Big yellow fruits of high quality; late August.
South Haven. Similar to Elberta but two to three weeks earlier. Productive, well-flavored, and possesses all the good shipping qualities of the original Elberta.

Quinces

90 cts. each, \$8.50 for 10

- Champion.** Large, late-ripening sort of high quality.
Orange. A mighty fine-quality variety and extremely popular.

Sweet Cherries

\$1 each, \$9 for 10

- Black Tartarian.** Fine old fruitful sort; black fruits; late.
Governor Wood. A fine home sort; russet-yellow.
Napoleon. Prolific; yellow with red cheeks; midseason.
Windsor. Large, liver-colored; hangs long time; very late.

Sour Cherries

90 cts. each, \$8 for 10

- Early Richmond.** Popular early fruit; good cooker.
Montmorency. The best sour Cherry; heavy crops; midseason.
English Morello. Dark red; rich fruits; very late.



Elberta Peach

Special prices quoted on larger quantities on receipt of specifications.

Premier
Strawberry

STRAWBERRY PLANTS

Strawberries in the Garden. No home-garden is complete without a bed or a few rows of Strawberry plants. This earliest and most delicious fruit, coming at a time when no other fresh fruit can be had, is liked by everybody. By planting some everbearers in addition to the early varieties, you can have fresh berries for the table from June to November, or until freezing weather sets in.

Strawberries for Profit. We know of no other crop that produces equal returns for the acreage planted or the time and labor expended. Market-gardeners and farmers are beginning to appreciate the enormous and ever-increasing demand for fancy home-grown berries and are limiting their acreage only to the amount they are able to take care of at picking-time.

Our Plants. The plants we offer are "new-ground plants" grown in virgin soil in one of the best plant-growing districts of the Northwest. They are large, strong, fully developed plants, ready to make a quick, steady growth the first year.

Order Early. The earlier you order, the surer you are to get the varieties you want. Strawberry plants should be set out as early in spring as the ground can be prepared, the earlier the better. The plants will be sent as soon as they can be dug in the spring and if your ground is not ready, heel them in and cover with straw until you plant them.

DISTANCE FOR PLANTING AND PLANTS REQUIRED PER ACRE

Commercial use. 3 3/4 ft. x 1 1/2 ft.	7,920 plants
Garden use. 2 1/2 ft. x 1 1/2 ft.	11,600 plants
Everbearing Strawberries. 2 1/2 ft. x 1 1/2 ft.	11,600 plants

Extra-Early

Premier. It is the earliest of all Strawberries, has a long fruiting season, and bears unusually large crops of bright, glossy, firm, red berries above the average in size. Excellent shipper.

Blakemore. One of the firmest berries we know, glossy bright red, high in Strawberry flavor.

Fairfax. Large, sweet, richly flavored bright red berries. Vigorous grower and disease-resistant.

Dorsett. A vigorous plant-maker with bright red berries of wonderfully high flavor. Excellent for table and home use.

Second-Early

Senator Dunlap. For many years has been grown as the main-crop berry. A very heavy bearer of good-sized, uniformly shaped berries of a dark red color. Splendid for canning as it holds its shape, rich color and flavor long after canning.

Medium Late

Catskill. By far the best new midseason berry that has been introduced recently. Fruit is extra large and the plant is a heavy bearer and vigorous grower. Can be depended on for good crops and the quality is excellent.

Everbearing

Mastodon. Very productive; unusually large size; brilliant, attractive color; and excellent shipping qualities. Produces fruit ninety days from planting. Pick the first crop from July to killing frosts; the second crop the following June; and the third crop from August to killing frosts in late autumn.

WAYZATA. This new everbearer is the finest, sweetest-flavored of all Strawberries. It should be in every garden. Produces big, beautiful berries from July to frost. Grown for market, Wayzata has made a good profit in large and small plantings. Plant this spring and enjoy these wonderfully fine berries.

PRICES

	Per 25	Per 50	Per 100	Per 1,000
Premier. Extra-early	\$0 75	\$1 20	\$1 70	\$6 50
Blakemore. Extra-early	60	1 00	1 60	5 40
Fairfax. Extra-early	75	1 20	1 70	6 90
Dorsett. Extra-early	60	1 00	1 60	5 65
Senator Dunlap. Second-early	60	1 00	1 60	4 70
Catskill.	75	1 20	1 70	6 90
Mastodon. Everbearing	95	1 50	2 10	8 75
Wayzata.	1 65	2 60	4 75	

Orders for 500 or more of one variety at the 1,000 rate.

At the prices quoted, we pay the postage, except at the 1,000 rate which is f.o.b. nursery.

On orders for 500 plants and upward we recommend express shipment.

CURRENTS

2-year plants, 30 cts. each, \$2.75 for 10

Fay's Prolific. Medium to long clusters of dark red, juicy fruits.

Perfection. Large, bright red fruits; big clusters.

Wilder. Medium-sized, mildly acid red berries in large clusters.

GRAPES

2-year plants, 20 cts. each, \$1.75 for 10, unless noted

Brighton. Big red berries of excellent flavor; productive and vigorous.

Catawba. Luscious dark red berries; late ripening and keeps well.

Concord. The standard Grape. Rich, sweet juicy fruits. 12 cts. each, \$1 for 10.

Delaware. Red, sweet and delicious.

Moore's Early. Like Concord, but two weeks earlier.

Niagara. An extra-fine, sweet, white Grape.

Warden. Large bunches of big, black berries of high quality. Earlier than Concord.

GOOSEBERRIES

2-year plants, 35 cts. each, \$3 for 10

Downing. Whitish green. The most widely planted and highly prized sort.

Red Jacket. Large reddish green fruits.

RED RASPBERRIES

Chief. The best early red. Berries are of good size and color. A vigorous grower and a heavy yielder.

Latham. Best late sort. Very productive of richly colored, delicious-flavored berries.

Indian Summer. Everbearing. This new variety is far superior to any other fall-bearing Raspberry. Berries are rich red, large and juicy, and of delicious flavor.

BLACK RASPBERRY

Cumberland. Very vigorous and productive. Berries large, firm, jet-black, with delicious flavor. Good shipper.

BLACKBERRY

Eldorado. Of best quality and always dependable. A heavy bearer of great jet-black berries. So strong and vigorous that the plants survive the severest winters.

	Per 12	Per 25	Per 50	Per 100
Raspberries				
Chief	\$1 10	\$1 60	\$2 50	\$3 75
Latham	1 10	1 60	2 50	3 75
Indian Summer	1 75	2 50	3 75	5 50
Cumberland	1 10	1 60	2 50	3 75

Blackberry
Eldorado

1 10 1 60 2 50 3 75

One-year No. 1 plants. Prices given ☐ postpaid.



Concord Grapes

FIELD SEEDS



Harvesting Wheat with ■ Model "WC" Allis-Chalmers Tractor and All-Crop Harvester

The Grains and Grass Seeds we offer are selected with special reference to their purity and germination, and great care is used to have them free from noxious foreign seeds. Every lot of seed is tested by a competent seed-analyst for purity and germination before it is offered for sale. A tag is attached to every bag showing the results of the test, also the origin of the seed. With this information, every farmer knows exactly what he is getting and what he is paying for.

We handle the very best seeds the market affords. An extra dollar or so per bushel means only a few cents extra per acre and this often represents the difference between a good crop and a poor one. Quality is our first consideration. With over 60 years' experience, you can depend on us for your seeds.

Prices. Owing to the frequent changes in the market prices of Field Seeds and Grains, it is impossible to name prices in our Catalogue. Latest price-list will be gladly sent on request.

Use Agri-Phos to preserve Grass Silage
Write for booklet and prices

CLOVERS

MEDIUM RED. More widely known than any other variety of Clover. Makes a standard Clover for hay purposes, as it can be cut at least twice in the season. Plants grow about 2 feet in height. Sow the seed in the early spring or late summer at the rate of fifteen to twenty pounds to an acre. If used with other seeds, ten pounds to an acre will be sufficient.

MAMMOTH RED. Sometimes called Sapling or English Clover. It is much ranker than the Medium Clover, and yields a much larger crop per acre. It does well on poor soil, is hardy, and usually will stay in the ground longer than Medium Clover.

ALSIKE. One of the best for sowing with Timothy. The seed may be sown in spring, late summer or early autumn, and as the plants are perfectly hardy, the field seldom requires reseeded. The flowers resemble White Clover, but have a red tinge on the edge of the petals and are considerably larger. Thrives better on thin soils than Red Clover. Sow the seed in the early spring or late summer at the rate of eight to ten pounds to an acre.

SWEET. This is a legume whose value today as a soil-improver is much appreciated. It is also used for forage. It is recommended by authorities and farmers everywhere. Will do well in most any soil, but it requires lime and the seed should be inoculated. It may be sown either in the spring or fall. Sow about twenty pounds of seed to an acre. Although a great number of different species are grown in the Old World, we recommend for this climate only the White Blossom Biennial (*Melilotus alba*).

CRIMSON. This Clover is used principally for turning under as a green fertilizer, or for sowing with corn for a winter cover-crop. If desired for feed, the plants should be cut just before they come into bloom. Seed may be sown any time after the first of April at the rate of twenty pounds to the acre. Plants are strictly annual, therefore the field must be reseeded every year. Thrives on poor land and increases fertility of the soil.

WHITE. White Clover is specially valuable for lawn planting and is likewise good for pasturage. Seed can be sown any

CLOVER, WHITE, continued

time in early spring or summer. It is perfectly hardy and very thrifty. Use from ten to twelve pounds to the acre if sown alone; about five pounds to the acre if sown on old sod or with other Clover.

ALFALFA

One of the most nutritious plants grown; valuable as a dried hay or for pasture. With proper cultivation it can be grown on some part of almost any farm in Pennsylvania or adjoining states. Two or three cuttings can be made in a season, producing from 3 to 5 tons of hay per acre. Ton for ton its feed-value equals that of wheat-bran. From 12 to 15 pounds of seed are usually sown to the acre; some growers sow only 10 pounds to the acre.

GRIMM ALFALFA. This variety is well known and is sown because of its hardiness, productiveness, and greater resistance to all types of "yellowing." The extra cost per acre for seed of this variety is generally justified.

Inoculate all Clover and Alfalfa seed with Farmogerm. See page 63

TIMOTHY

A description of this old familiar hay-making grass is unnecessary here. It is recognized by almost everyone wherever found, and is probably the most extensively grown of all the grasses. It may be sown alone or with Red or Alsike Clover, or with other grasses. From twelve to fifteen pounds of seed are usually sown to the acre.

PERMANENT PASTURE MIXTURE

A well-balanced pasture-producing mixture made up of the very highest grades of cleaned grass and clover seeds, which will produce an abundant and nutritious food-supply for all kinds of stock. The land should be plowed in the fall, left rough over winter, and prepared in the spring, making the seed-beds as fine as possible by repeated harrowing. After seeding, the land should be rolled. An occasional top-dressing of fertilizer high in nitrogen is advisable after the grass is established. Sow 40 pounds to the acre. A bushel weighs about 28 pounds. 5 lbs. \$2.25, 10 lbs. \$4, 25 lbs. \$8.75, 50 lbs. \$16, 100 lbs. \$30.

FIELD SEEDS

Treat seeds of legume crops with Farmogerm and seed-grains with New Improved Ceresan. See page 63

SOY BEANS. A valuable plant for bringing nitrogen into the soil. It is also excellent for green or dried fodder, and the seed is very rich in protein, making an excellent dairy feed when balanced with other grains. Seed should be sown during the months of May or June, using at least one bushel to the acre, when sown broadcast, or when sown in drills, $2\frac{1}{2}$ feet apart, about three pecks to the acre. We handle two varieties—**Wilson** and **Manchu**. The Wilson is a well-known variety in Pennsylvania for an early hay crop. It has fine stems, produces abundant foliage, and is also suitable for silage. The Manchu is a good all-purpose variety. Valuable for forage or hogging down.

COWPEAS. One of the best soil-enrichers, taking the nitrogen from the air and storing it in the soil; valuable also for hay, forage, ensilage or turning under. They should be sown in this latitude in May or June, using, when sown broadcast, one and one-half to two bushels to the acre.

CANADA FIELD PEAS. Used for hay and pasture as well as soil-improvement. Canada Field Peas should be sown as early as possible in the spring, either alone or with oats. When sown broadcast alone, at least two bushels of seed to the acre should be used, or with oats, one and one-half bushels of Peas and one bushel of oats.

SORGHUM or AMBER CANE. Used principally as a summer fodder for cattle. Plants will grow rapidly and at least two crops can be cut each season. If carefully cured it will make an excellent dry fodder. The seed may be sown in drills about 30 inches apart, at the rate of five to six pounds of seed for an acre. If sown broadcast, from seventy-five to one hundred pounds of seed are generally used.

WINTER or HAIRY VETCH. One of the best legumes, whether used for a hay crop, pasture, soil-improvement or cover-crop. Thrives on light soils and is very hardy, remaining green throughout the winter. May be sown in the spring or fall, using from sixty to seventy pounds of seed to the acre when sown alone. It is better, however, to furnish a support for the Vetch by sowing rye, barley or oats with it at the rate of one-half bushel of grain and fifty pounds of Vetch to the acre.

DWARF ESSEX RAPE. Especially valuable for feeding sheep, hogs and cattle. Claimed to have a feed value greater than clover. Always used as a pasture and not for hay. Its growth is similar to turnip-tops, but heavier and taller. If seed is sown in May the field should be ready for pasture in July. However, seed may be sown either in early spring, summer or fall. If sown in drills, about five pounds of seed will be required for an acre; if sown broadcast, ten pounds to the acre.



Soy Beans

MILLET. A medium-early forage plant which will grow in almost any climate or soil and produces heavy yields of fodder. The crop should be cut while the plants are in bloom, or at least before the seed forms. Seed may be sown during the month of May or the early part of June at the rate of from thirty to forty pounds to the acre.

SUDAN GRASS. Grows very rapidly and is recommended as a substitute for millet for a catch-crop. Attains a height of from 5 to 9 feet and has great drought-resisting qualities. It is strictly an annual and dies each year, like millet. If sown in rows, four to six pounds of seed per acre is recommended or broadcast sixteen to twenty-four pounds per acre.

LESPEDEZA (Japan Clover). This is a pasture or hay plant that is very popular in the southern states, where it will give good results, even on the poorest soils. It is quite extensively used for lawn purposes in sections suited to it.

DOMESTIC RYE GRASS. A quick-growing grass that is valuable for pasture and relished by all livestock. In recent years it has been used with very gratifying results as a winter cover crop. Can be sown at the last cultivation of corn or after the harvest of an early crop. Broadcast seed at the rate of about twenty pounds per acre.

ORCHARD GRASS (*Dactylis glomerata*). A quick-maturing Grass that is used for pasture and hay. It may be cut several times during the year, but it is advisable to use the machine before the plants show the seed-heads. From thirty to thirty-five pounds will be required for an acre.

BARLEY. We have the Oderbrucker variety. It is a stiff-strawed, six-rowed, bearded Barley, the heaviest yielder that has been introduced, both in grain and straw. Two bushels of seed will be required for an acre.

BUCKWHEAT. Japanese is the leading variety and the most productive. It is a valuable crop on farms where the soil is thin or where other crops have failed. Seed may be sown during June or early July at the rate of one bushel to the acre.

WINTER WHEAT. We can supply the leading sorts of Winter Wheat. Our stock usually consists of **Leaps Prolific**, **Pennsylvania 44**, **Forward**, and **Klondyke**. Write us for samples and prices before seeding time.

SPRING WHEAT. If your winter wheat happens to be killed by extreme cold weather, you can still secure a crop by sowing Spring Wheat in early spring. **Marquis** is the leading variety sown in Pennsylvania.

WINTER RYE. Usually sown as a cover-crop, getting the seed into the ground before the middle of November. About one and one-half bushels of seed will be required for an acre.

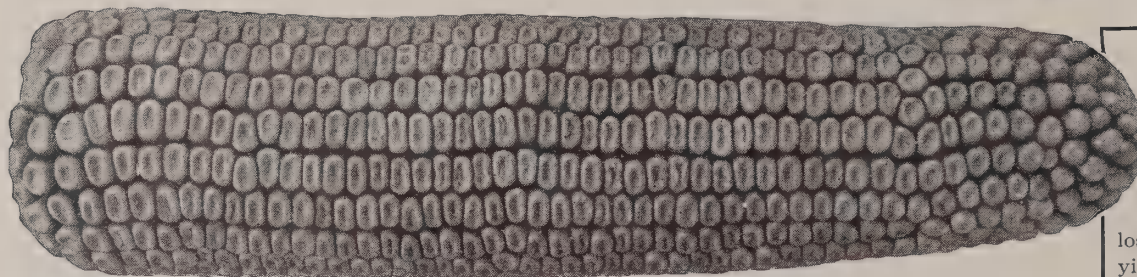
SPRING RYE. Matures early and makes an excellent green food when cut, or will supply pasturage for several weeks. Distinct from the winter sorts, as the seeds are smaller.

OATS

PATTERSON. An old and well-established variety originated by Pennsylvania State College. Medium early, with rather small, light yellow grains. The straw is fairly long but only medium stiff. A heavy yielder.

CORNELLIAN. A branching or tree-shaped variety. The kernels are long, rather slender, with very thin hulls. The grains do not make a very attractive appearance, but on account of the thin hulls it has excellent feeding quality. A remarkably heavy-yielding variety.

SWEDISH SELECT. This variety is too well known to require a lengthy description here. The quality of the grain is unsurpassed. Very thick kernel and thin shuck. Does not have a long beard like common Oats. The straw grows to a medium height, is very stiff, and consequently seldom lodges. It has proved to be a wonderful yielder.



Ohio W17 Hybrid Field Corn

**Protect Your
Seed Corn with
Stanley's Crow
Repellent**

It is economical to use, saves loss of seed, and insures larger yield per acre. See page 64.

FIELD CORN

We have always made a specialty of Seed Corn, supplying our trade with only those varieties that experience has proved are most suitable for the climate of Pennsylvania, Ohio, and West

GOLDEN SURPRISE. An old-time variety maturing in 90 to 95 days. Because of quality, yield, and color, Golden Surprise is one of our most popular Corns. Ears are good size, with 14 to 18 rows of long, light orange kernels. A crackerjack good Corn for the crib, and has a host of friends.

SCOTT'S SURE-CROP. The tremendous quantity of shelled Corn this variety produces to the acre surprises everyone who grows it. Generally there are two good ears to a stalk. The grain is very long—and the cob very thin. Has a rich, deep yellow grain, making it much desired by millers. The fodder grows from 8 to 10 feet high. Ripens in 90 to 100 days.

EARLY ORANGE YELLOW DENT. A 90-day Corn that is almost a giant, stalks ranging from 8 to 11 feet high. The ears are 8 to 10 inches long, with 16 rows on a red cob. One of the earliest maturing and prettiest yellow Dents in cultivation, which has made a reputation for yield and quality.

PRIDE OF THE NORTH. A Yellow Dent variety, maturing in 90 days. Ears 8 to 10 inches long, sixteen rows on the ear, cob small, grain above medium size and closely set. One of the hardiest, and especially adapted to the northern planter; will mature farther north than any other Dent Corn.

IMPROVED LEAMING. Matures in 90 to 100 days. Produces a good-sized ear, with deep, broad grains. A large, vigorous, and quick-growing sprout makes leafy fodder; one of the best varieties for silage. Improved Leaming has yielded as high as 75 bushels of shelled Corn per acre.

Virginia. Our Seed Corn is carefully hand-picked and tipped and butted before it is shelled. We aim to have every variety true to name and of high germination.

WHITE-CAP YELLOW DENT. An early sort which grows well on light soil; grain is yellow with white tip. Nearly as early as Pride of the North, maturing in from 90 to 95 days. Ears about 10 inches long, well filled, with 16 or 18 rows.

HYBRID FIELD CORN

The acreage planted to Hybrid Corn has been gradually increasing each year. Experiments have proved that Hybrids have more vigor, produce larger yields, and are more drought- and storm-resistant than open-pollinated varieties.

We offer the following Hybrids which, in our opinion, are the best adaptable to this section. However, we will endeavor to supply any particular Hybrid a customer may wish to try.

OHIO W17. In trial plantings made in Allegheny County during season of 1938, this Hybrid made an average yield of 72.78 bushels per acre, a record which it continues to hold. Stalks are of medium height and leafy, ear about 8 inches in length, and kernel is light yellow in color. Medium early.

IOWA 939. Probably the best known Hybrid, and a good general-purpose Corn. Has stiff stalk, slightly taller than Ohio W17. Ears 9 inches long and the grain is a rich yellow. Medium early.

OHIO K23. An early variety and suitable for territory susceptible to early frost, or on thinner soil. Stalks are short, deep green, and very leafy. Ears are low on the stalk, 7½ inches in length, and medium thick.

ENSILAGE CORN

HYBRID SWEEPSTAKES. Produced by crossing inbreds of the tallest Southern ensilage varieties with the highest grain-producing early northern Corns. Experiment stations and farmers report that it matures more grain and silage in short growing seasons than other ensilage varieties. Should be heavily fertilized to mature a desirable crop.

LANCASTER COUNTY SURE-CROP. Lancaster County Sure-Crop holds first place in the estimation of many leading farmers. It is a yellow Corn; ears 13 inches in length and not proportionately thick. It grows quite tall, is very leafy and develops ears early. Some farmers claim that for husking purposes it is just as valuable a variety as it is for ensilage.

EUREKA. (Virginia-grown.) A vigorous grower, often growing 16 to 18 feet high; unusually heavy foliage, and produces from one to three ears to the stalk, according to the land. The grain is large, broad and ivory-white; ears average about 11 inches.

BLUE MOUNTAIN. This Corn is grown at a high altitude in the Blue Ridge Mountains in Virginia, and makes an ideal ensilage Corn. Grows 14 to 16 feet high, full of leaves, and has a big ear. A vigorous grower.

VIRGINIA HORSE-TOOTH. The popular fodder Corn of the Southern States; from 12 to 14 feet high, and stiff enough to stand up during severe storms. The seed is white, broad, and deep, with white cob.

Write us for special prices and samples of Field Seeds and Grains. Specify quantities wanted



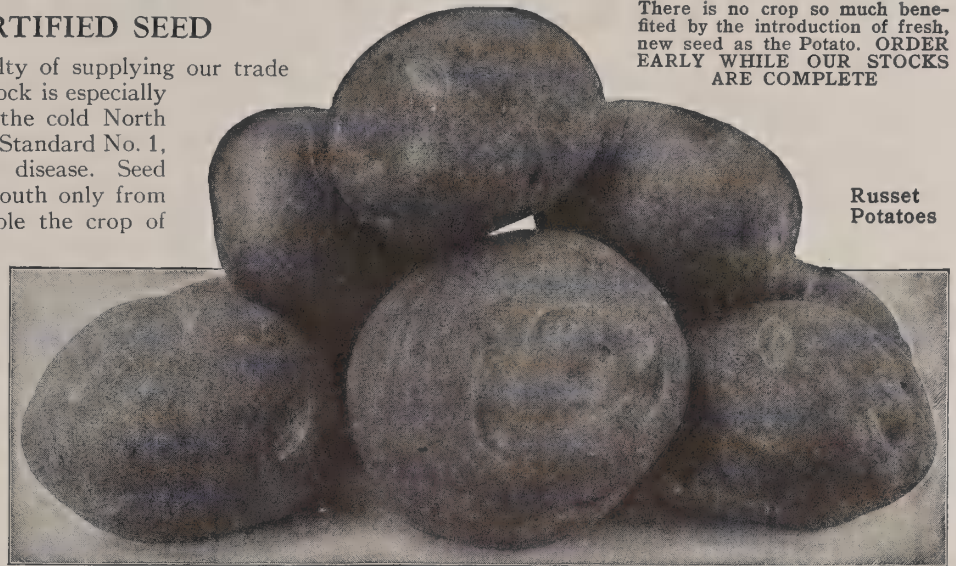
Lancaster County Sure-Crop Corn

SEED POTATOES

NORTHERN-GROWN CERTIFIED SEED

For many years we have made a specialty of supplying our trade with northern-grown Seed Potatoes. Our stock is especially grown for seed, by experienced growers in the cold North and Northwest, and is Certified Stock, U. S. Standard No. 1, high quality, true to type and free from disease. Seed Potatoes that are northern-grown, moved south only from 100 to 300 miles, frequently produce double the crop of home-grown seed.

We begin shipping Seed Potatoes as early in the spring as weather conditions will permit, usually the latter part of March. However, we urge our customers to place their orders early, while our stock of all varieties is complete. Owing to the perishable nature of Seed Potatoes the market is subject to radical changes, and it is impossible for us to quote prices at the time our Catalogue goes to press. Price-list sent on request.



Russet Potatoes

There is no crop so much benefited by the introduction of fresh, new seed as the Potato. ORDER EARLY WHILE OUR STOCKS ARE COMPLETE

EARLY VARIETIES

WARBA. A comparatively new variety. Earlier than Cobbler, a heavy yielder and disease-resistant. Has smooth white skin and pink eye. Very desirable for the home-garden.

SPAULDING'S EARLY ROSE. (Certified.) A seedling of the Early Rose, with pink skin, pure white flesh, much stronger foliage and a better Potato than the Early Rose in every way.

EARLY OHIO. (Certified.) A sort that is well known by market-gardeners who are after a first-early Potato for home trade; the tubers are almost round, with pink skin and of excellent quality.

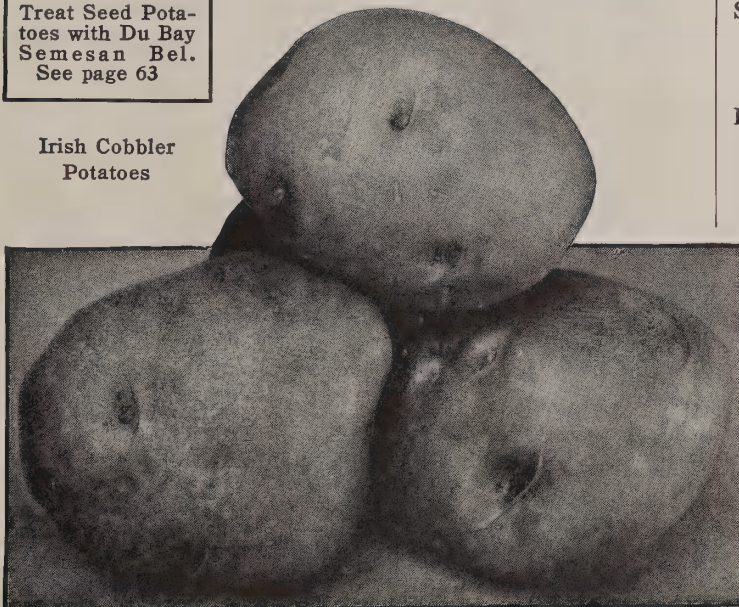
IRISH COBBLER. (Certified.) An extra-early, round, white Potato. Vines yield heavily and the tubers are of extremely fine quality. An excellent all-round variety, either for the home-garden or growing commercially. About a week to ten days later than Early Ohio, but usually much more productive.

CHIPPEWA. (Certified.) About 10 days later than Irish Cobbler but superior in smoothness and whiteness. In tests it has outyielded Cobblers on both muck and upland soils.

Price-list of Seed Potatoes furnished on request

Treat Seed Potatoes with Du Bay Semesan Bel. See page 63

Irish Cobbler Potatoes



LATE VARIETIES

KATAHDIN. (Certified.) A handsome, shallow-eyed, glossy, white-skinned variety, originated by the U. S. Department of Agriculture, which matures a little later than Green Mountain, but earlier than the Rurals. It has very few tubers of unmarketable size and has all varieties beaten in uniformity of shape, size, and in general appearance. It does well on light, friable soil, but is not adapted to heavy soil subject to drought conditions.

RUSSET. (Certified.) An exceptionally heavy yielder. Table quality of the very best, with smooth, velvety, russet skin and shallow eyes. It is very fine-grained, cooks as white as flour, and is of splendid flavor; an excellent keeper and retains its good eating qualities until late in the spring. It is one of the hardiest varieties known. Its great productiveness, handsome color and resistance to diseases make it a very popular Potato and one especially suited to our locality.

CARMAN No. 3. (Certified.) Extra large, oblong, slightly flat, white. Vines are extra-good growers and yield an immense quantity of tubers of uniform size. One of the best late varieties; of excellent quality; good keeper.

SIR WALTER RALEIGH. (Certified.) The tubers vary from round to oblong in shape, uniformly of good size, white-skinned and of excellent quality. A good keeper, and, like Carman No. 3, a very heavy yielder.

RURAL NEW YORKER No. 2. (Certified.) The tubers are round to oblong, unusually large, white, eyes near the surface, and sets as a rule only two to four tubers per plant or hill, but usually all large ones.

IMPROVED GREEN MOUNTAIN. (Certified.) In the Improved Green Mountain we have a better Potato than was the old Green Mountain at its best. The tubers are uniform in shape, oblong, with two good ends, slightly flattened, creamy white skin, and pure white flesh of excellent quality.

Price-list of Seed Potatoes furnished upon request

Fertilizer. We recommend "Agrico for Potatoes" Fertilizer as excellent for Potatoes. See page 56 for prices.

Potato Machinery. If you are interested in Potato Machinery, write for special catalogue giving detailed descriptions of Potato Planters, Diggers, and Sprayers.

AGRICO *The Nation's Leading Fertilizer*

A man is known by the company he keeps—a fertilizer by the crops it produces. There just isn't any other way to judge a fertilizer—results tell the whole story. Results, measured in terms of crop-yields and crop-quality.

In side-by-side tests, on farm after farm, Agrico is producing bigger yields of better-quality crops, season in and season out. That is because Agrico is specially formulated for each crop and each principal crop-producing section. Moreover, each

of the special Agrico formulas is constantly checked in the field, by measuring yields and checking crop quality. Thus, Agrico at all times provides the growing crop with ALL of the needed plant-foods, in just the right proportions for healthy, vigorous growth.

Agrico represents the last word in plant-food. When additional nutrients are required, or when other combinations of plant-foods are proved better, Agrico will have them.



Agrico for Truck (5-10-5)

A specially blended fertilizer for the commercial truck-grower. Noted for the high-quality truck it produces—with better yields and early maturity. Remember, early markets usually pay the grower the best prices.

In 100-lb. paper bags

100 lbs.	\$2 60	1,000 lbs. ...	\$21 45
500 lbs.	11 50	2,000 lbs. ...	39 90



Agrico for Corn (3-12-6)

A carefully balanced formula to ensure vigorous root-growth, sturdier stalks, ears filled out to the tip, larger yields, better quality. Made to measure for growing corn in this locality.

In 100-lb. paper bags

100 lbs.	\$2 50	1,000 lbs. ...	\$20 50
500 lbs.	11 00	2,000 lbs. ...	38 00



Agrico for Potatoes (4-8-8)

The nation's leading seed-potato growers use Agrico simply because, in test after test, Agrico produces more No. 1's of uniform size and quality. Formulated to meet the exact needs of potatoes in this section.

In 100-lb. paper bags

100 lbs.	\$2 55	1,000 lbs. ...	\$20 80
500 lbs.	11 15	2,000 lbs. ...	38 60



Agrico for Tomatoes (4-14-6)

This particular Agrico grade is formulated to grow top-quality tomatoes—to do this one job and do it better. Result, growers frequently get premium prices for their Agrico-grown tomatoes.

In 100-lb. paper bags

100 lbs.	\$2 65	1,000 lbs. ...	\$22 25
500 lbs.	11 90	2,000 lbs. ...	41 45



Agrico for Grain (2-12-6)

Specially formulated to grow larger yields of better-quality grain. And, as with the other grades of Agrico, containing all of the plant-foods in just the right proportions to meet the specific needs of the crop.

In 100-lb. paper bags

100 lbs.	\$2 40	1,000 lbs. ...	\$19 50
500 lbs.	10 50	2,000 lbs. ...	36 00



Agrico for Fruit (10-6-4)

A truly complete fertilizer which supplies ALL the plant-foods needed at every stage of growth, imparting the healthier tone and vigor which helps ward off disease. Brings out the best in each fruit variety.

In 100-lb. paper bags

100 lbs.	\$2 90	1,000 lbs. ...	\$24 65
500 lbs.	13 10	2,000 lbs. ...	46 30



Agrico for Top-Dressing (7-7-7)

Especially designed for all top-dressing purposes. It is the ideal mixture for top-dressing hay-fields where increased yields are important in cutting down the feed bill; also excellent for pastures where better growth or earlier feeding is desired.

In 100-lb. paper bags

100 lbs.	\$2 80	1,000 lbs. ...	\$23 15
500 lbs.	12 35	2,000 lbs. ...	43 25



Agrico 0-14-6

A high-phosphorus fertilizer with potash for top-dressing alfalfa and clover also for corn, grain or seeding down where ground is extra-heavily manured or where grain lodges; also for top-dressing clover pasture.

In 100-lb. paper bags

100 lbs.	\$2 30	1000 lbs. ...	\$18 20
500 lbs.	9 85	2000 lbs. ...	33 35

For delivery and cash discount refer to page 57

AGRICO is manufactured only by The American Agricultural Chemical Co., 129 Lewis St., Buffalo, N. Y.

"AA" QUALITY FERTILIZERS

A record of performance extending back over three-quarters of a century fairly entitles "AA Quality" Fertilizers to be called the nation's standard crop-producers. Good crops depend on good fertilizer. It pays to use "AA Quality."

"AA" RED SEAL (5-10-5)

In 100-lb. paper bags

100 lbs. \$2 50	1,000 lbs. ... \$20 35
500 lbs. 10 95	2,000 lbs. ... 37 70

"AA" PATHFINDER (4-12-4)

In 100-lb. paper bags

100 lbs. \$2 45	1,000 lbs. ... \$19 70
500 lbs. 10 60	2,000 lbs. ... 36 40

"AA" CLIMAX (3-12-6)

In 100-lb. paper bags

100 lbs. \$2 40	1,000 lbs. ... \$19 45
500 lbs. 10 50	2,000 lbs. ... 35 85

"AA" CHAMPION (2-9-5)

In 100-lb. paper bags

100 lbs. \$2 20	1,000 lbs. ... \$17 15
500 lbs. 9 35	2,000 lbs. ... 31 25

20 Per Cent Superphosphate

10 lbs. \$0 50	50 lbs. \$1 50
25 lbs. 1 00	

In 100-lb. paper bags

100 lbs. \$1 85	1,000 lbs. ... \$13 90
500 lbs. 7 70	2,000 lbs. ... 24 75

Nitrate of Soda

Fifteen per cent nitrogen, equivalent to over 18 per cent ammonia. 1 lb. 15 cts., 5 lbs. 40 cts., 10 lbs. 65 cts., 25 lbs. \$1.25.

In 100-lb. burlap bags

100 lbs. \$3 00	1,000 lbs. ... \$25 50
500 lbs. 13 50	2,000 lbs. ... 48 00

Sulphate of Ammonia

20.5 Nitrogen. 2 lbs. 25 cts., 5 lbs. 40 cts., 10 lbs. 65 cts., 25 lbs. \$1.25.

In 100-lb. burlap bags

100 lbs. \$3 25	1,000 lbs. ... \$28 20
500 lbs. 14 85	2,000 lbs. ... 53 40

Granular "Aero" Cyanamid

Granular Aero Cyanamid is a fertilizer carrying both nitrogen and lime. A 100-pound bag supplies 21 pounds of nitrogen and 70 pounds of hydrated lime.

May be applied early in the crop-season without danger of loss of its fertilizing value. Its nitrogen is yielded up to the plant as required. The lime of Aero Cyanamid is in a very active form.

100 lbs. \$3 00	1,000 lbs. ... \$24 50
500 lbs. 13 00	2,000 lbs. ... 46 00

Muriate of Potash

Imported, guaranteed 48 per cent K₂O. Lb. 15 cts., 5 lbs. 40 cts., 10 lbs. 65 cts., 25 lbs. \$1.25.

In 100-lb. burlap bags

100 lbs. \$3 00	1,000 bags. ... \$25 40
500 lbs. 13 45	2,000 lbs. ... 47 80

Sulphate of Potash

Forty-eight per cent potash. Generally used for acid-loving plants. Lb. 20 cts., 5 lbs. 50 cts., 10 lbs. 90 cts., 25 lbs. \$1.40, 50 lbs. \$2.25, 100 lbs. \$4.

Lawn and Garden Bone-Meal

Especially adapted for lawns, gardens, and greenhouses. Ground very fine.

Nitrogen, 2.47 per cent; total Phosphoric Acid, 23 per cent.

5 lbs. \$0 35	25 lbs. \$1 00
10 lbs. 60	50 lbs. 1 95

In 100-lb. burlap bags

100 lbs. \$3 25	1,000 lbs. ... \$29 00
500 lbs. 15 25	2,000 lbs. ... 55 00

Pure Raw Bone-Meal

Used for the same purpose as Lawn and Garden Bone-Meal, but not so quick in action.

Nitrogen, 3.70 per cent; total Phosphoric Acid, 20 per cent.

In 100-lb. burlap bags

100 lbs. \$3 35	1,000 lbs. ... \$29 50
500 lbs. 15 50	2,000 lbs. ... 56 00

Dried Blood

Generally used in greenhouses, rose and flower gardens, etc. A safe form of organic nitrogen.

5 lbs. \$0 50	50 lbs. \$3 25
10 lbs. 90	100 lbs. 6 00
25 lbs. 1 75	500 lbs. 28 75

Soy Bean Meal

Valuable for its nitrogen content. Generally used for top-dressing newly seeded lawns.

10 lbs. \$0 50	50 lbs. \$1 75
25 lbs. 1 10	100 lbs. 3 00

Cottonseed Meal

High in nitrogen and potash. Mostly used on lawns and golf greens.

10 lbs. \$0 50	50 lbs. \$1 75
25 lbs. 1 10	100 lbs. 3 00

Larger quantities quoted on request.

Scotch Soot

Recommended both as a fertilizer and fungicide. Will produce color in flowering plants; also effective against grubs and worms that work near the surface.

5 lbs. \$0 65	50 lbs. \$3 00
10 lbs. 1 00	100 lbs. 5 50
25 lbs. 1 75	

Electra Fertilizer (4-9-3)

Used very extensively by commercial and private growers. Electra contains Vitamins A and B complex and D, and is designed to exercise a corrective influence on every phase of plant development, soil, roots, structure, breaks, buds, flowers, fruit, and seeds. Highly organic. Use it for feeding, forcing, or finishing. Electra guarantees complete and uniform plant-development and color without softness.

100-lb. bag. ... \$7 50	1,000 lbs. ... \$69 00
500 lbs. 34 75	2,000 lbs. ... 137 00

Universal Acid Plant Food (6-15-4)

Designed especially for growing more successfully the difficult acid-loving plants—gardenias, azaleas, rhododendrons, heathers, etc.

100-lb. bag. ... \$7 50	1,000 lbs. ... \$69 00
500-lb. bag. ... 34 75	2,000 lbs. ... 137 00

Unleached Hardwood Ashes

Indispensable for all crops requiring potash.

5 lbs. \$0 25	500 lbs. ... \$12 50
25 lbs. 90	1,000 lbs. ... 23 50
100 lbs. 3 00	2,000 lbs. ... 44 00

Agricultural Gypsum

Agricultural Gypsum (land plaster) is an untreated, ground, natural rock fertilizer, consisting mainly of hydrated calcium sulphate. It therefore bears two essential plant-foods, calcium and sulphur. It is also used as a carrier of insecticides, such as paris green, calcium arsenate, etc.

Put up in 100-lb. paper bags

100 lbs. \$1 50	1,000 lbs. ... \$10 50
500 lbs. 6 00	2,000 lbs. ... 18 00

Ask for booklet, "How and Why of Gypsum"

Bald Eagle Hydrated Lime

Available Calcium Oxide, 69.50
Available Magnesium Oxide, .85

Prepared especially for vegetable gardens, lawns, greenhouses, whitewash, and kindred uses, besides all the various other purposes for which Lime is essential. It corrects the sour condition which exists in many soils, especially those shaded by houses or trees. About 1 pound of Bald Eagle to each 30 square feet of garden ground or lawn is sufficient to sweeten the soil.

5-lb. bag. \$0 15	100 lbs. \$1 25
10-lb. bag. 25	500 lbs. 5 75
25-lb. bag. 40	1,000 lbs. ... 10 00
50-lb. bag. 70	2,000 lbs. ... 17 00

Alfalfa Brand Agricultural Limestone

Calcium Carbonate, 96.50
Magnesium Carbonate, 1.20

100 per cent passing 20 mesh; 70 per cent passing 100 mesh

Pure ground Limestone, artificially dried and very finely pulverized.

80-lb. bag. ... \$0 95	960 lbs. ... \$6 75
480 lbs. 4 10	2,000 lbs. ... 11 00

Delivered carload prices on lime quoted on request

DELIVERY. Prices of all fertilizers include local delivery in quantities of 50 pounds or more. On call orders and rail shipments an allowance will be made of \$1 from the 500-pound price, \$1.50 from the 1,000-pound price, and \$2 from the 2,000-pound price. Rail shipments F. O. B. cars, Pittsburgh. Quantities less than 50 pounds sent by Parcel Post at rates given on page 143 under "Parcel Post Shipments."

CASH DISCOUNT. A discount of 5 per cent will be allowed on orders of 500 pounds and upward on all Fertilizers listed on this page and page 56, when cash is remitted with order, or when paid for at time of delivery.

Scott's Lawn-Gro Fertilizer



This Fertilizer was developed for one purpose: To make lawns thrive and maintain their luxuriant green color throughout the year. It is ready to use, clean, practically odorless, and easy to apply. The nitrogen content is made up of both organic and inorganic nitrogen. The inorganic nitrogen promotes a rapid and vigorous growth, while the organic nitrogen becomes available later, extending the feeding value over a longer period of time. Use it this year and see the difference it makes.

5-lb. bag....\$0 45	50-lb. bag...\$2 50
10-lb. bag.... 85	100-lb. bag... 4 50
25-lb. bag.... 1 50	500 lbs. ....21 00

AGRICO Country Club Fertilizers



These Country Club grades, built on formulae developed over a period of 35 years, are being used with excellent results at many of our leading country clubs. They are designed to encourage growth of dark green, springy, luxuriant turf, which will stand both the use and abuse to which golf course turf is subjected.

For PUTTING GREENS: Use Agrico Country Club 8-6-2 which carries 50 per cent of its Nitrogen in organic form thus furnishing long-lasting, as well as quick-acting, plant-food.

For FAIRWAYS: Use Agrico Country Club 8-6-4 at least once a year, either spring or fall, to maintain good turf. Specially prepared to furnish highly assimilable grass foods that will keep turf in a vigorous, healthy condition so that it will better resist drought, insects, and disease.

Agrico Country Club for Fairways (8-6-4)	
100 lbs. ....\$3 90	1000 lbs. ....\$32 00
500 lbs. ....16 75	2000 lbs. 61 00

Agrico Country Club for Putting-Greens (8-6-2)

100 lbs. ....\$3 70	1000 lbs. ....\$30 00
500 lbs. ....15 75	2000 lbs. 57 00

Vigoro

Specially Prepared Plant-Food

Vigoro is specially prepared to supply lawns, gardens, flowers, roses, shrubbery, and trees with all of the plant-food elements needed for rapid, sturdy, and luxuriant growth.

Vigoro is clean, odorless, and easy to apply. It can be sown by hand, like grass seed, or by spreader.

For new lawns before seeding, or spring feeding of old lawns, use 4 pounds per 100 square feet of lawn. Complete directions in every bag.

1-lb. pkg. ...\$0 10	50-lb. bag...\$2 50
5-lb. pkg. ... 45	100-lb. bag... 4 00
10-lb. pkg. ... 85	500 lbs. ....18 00
25-lb. bag... 1 50	

AGRICO for Gardens



Gardens require a different balance of plant-foods than grass. Flowers and vegetables require less Nitrogen but more Phosphorus with ALL the other essential plant-foods in right proportions—for beautiful bloom and fine, delicious vegetables.

Use a Garden Fertilizer on Your Garden

5-lb. bag....\$0 45	50-lb. bag...\$2 40
10-lb. bag.... 75	100-lb. bag... 3 75
25-lb. bag.... 1 40	500 lb. bag..16 90

Ammo-Phos

A high-analysis fertilizer material carrying both nitrogen and phosphoric acid; is very effective as a fertilizer, particularly for lawns, gardens, and golf-courses. Contains 16 per cent nitrogen and 20 per cent phosphoric acid. In 100-lb. bags.

100 lbs. ....\$4 50	1,000 lbs. ...\$41 00
500 lbs. ....21 25	2,000 lbs. ....79 00

Aluminum Sulphate

Experiments have shown that soil acidity is required for rhododendrons, azaleas and all other evergreens. Apply at the rate of about one-half pound per square yard.

1 lb. ....\$0 15	25 lbs. ....\$1 40
5 lbs. 50	50 lbs. 2 25
10 lbs. 75	100 lbs. 3 75

Eisler's Humus

An organic material used principally as a soil-conditioner and for mixing with potting soil. Recommended for lawns, flower-beds and gardens.

Small bag (about 10 lbs.).....\$0 45
Large bag (about 100 lbs.)..... 1 75
5 bags..... 6 50
10 bags.....11 00

Larger quantities quoted on request.

PlanTabbs



PlanTabbs are a complete balanced plant-food in tablet form, plus Vitamin B₁. They are easy to use. No odor, no mess. Can be used both in the garden and on house-plants.

Prices, postpaid: 30 tablets 25 cts., 75 tablets 50 cts., 200 tablets \$1, 1,000 tablets \$3.50.

Mackwin Vitamin B₁ Liquid

A growth-stimulant for indoor and outdoor plants. ½-oz. bottle (makes 120 gallons of solution) 35 cts., 2-oz. bottle (makes 800 gallons of solution) \$1.

AGRICO for Lawns, Trees and Shrubs



Have a thicker, greener, more luxuriant lawn. Specially formulated for lawns, trees, and shrubs where a high Nitrogen content is needed, properly balanced with ALL the other needed plant-foods for rich, green growth all season long.

Use a Lawn Fertilizer on Your Grass

5-lb. bag....\$0 45	50-lb. bag...\$2 50
10-lb. bag.... 75	100-lb. bag... 4 00
25-lb. bag.... 1 50	500 lb. bag..18 00

Milorganite

A specially prepared fertilizer, high in nitrogen, and so constituted as to retain its nitrogen over long periods. This assures a uniform and constant supply of this vital plant-food element throughout the season, which is so essential for fine sturdy grass.

In 100-lb. bags

100 lbs. ....\$3 00	1,000 lbs. ...\$24 00
500 lbs. ....12 75	2,000 lbs. 45 00

Agrinite

The All-Organic Turf Food, 8½ per cent Nitrogen



Supplies nitrogen steadily over a longer period of time; helps produce healthy turf that stays green all summer; resists winter weather; and starts off quickly in the spring.

100 lbs. ....\$3 30	1,000 lbs. ...\$28 10
500 lbs. ....14 85	2,000 lbs. 50 00

Adco

For Making Artificial Manure

Most gardeners are familiar with ADCO, the patented powder that transforms cuttings, stalks, leaves, weeds, straw, cornstalks, and, in fact, almost any non-woody garden or farm waste into rich organic fertilizer. At the experimental station where ADCO originated, research on the process has continued unceasingly, and, as a result of this prolonged scientific study, ADCO is now more rapid in action and more thorough in results than ever.

7½-lb. bag (enough to treat about 100 pounds of dry material), \$1.

25-lb. bag (enough for 12 wheelbarrow loads of garden waste, making ½ ton of manure), \$2.25.

150-lb. bag (enough for a heap 10x10x6 ft., making about 3 tons of manure), \$10.50.

Transplantone

A vitamin-hormone stimulant for rooted plants. Invigorates and increases roots, reduces wilt and promotes growth. For use in moving seedlings, shrubs, plants, trees. 1-oz. can 50 cts., 3-oz. can \$1, 1-lb. can \$4.



We have sold and recommended Wizard to home-owners and gardeners for more than 20 years.

Prices

2 lbs.	\$0 20
5 lbs.	30
10 lbs.	50
25 lbs.	1 00
50 lbs.	1 75
100 lbs.	3 00
500 lbs.	12 50
1,000 lbs.	22 50
2,000 lbs.	42 00

Cow Manure

Same price as Sheep Manure.
Delivery: Refer to bottom of page 57.

Makes All Plants Grow!

NATURE'S PLANT-FOODS FOR LAWNS AND GARDENS

You get added value and greater effectiveness from Wizard Natural Plant-Foods because of these three distinctive and important features:

1. All Plant-Food Elements.

Wizard supplies in a safe, natural form all the elements needed to make plants thrive.

2. Soil-building Humus.

Humus is a vital need of all soils and is supplied in abundance by Wizard. Humus is only supplied by Natural Organic Plant-Foods.

3. Beneficial Bacterial Action.

The vast store of plant-food locked up in all soils is liberated and made available to plants by the bacterial action that Wizard promotes.

Wizard improves the physical condition and puts new life into worn-out soils. It is safe, absolutely weedless, and lasting in effect.

Lawns.

Six to ten pounds to 100 square feet in spring and fall will produce a thick green turf.

Flowers.

A handful mixed with soil under each new plant, or 10 pounds to 100 square feet of bed area, will insure luxuriant green foliage and an abundance of bloom.

Vegetables.

Wizard promotes quick, tender growth of high-quality vegetables. Apply in hill or row or broadcast at rate of 6 pounds to 100 square feet.

Shrubs and Trees.

The lasting qualities of Wizard make it the ideal food for trees and shrubs. It releases plant-food continuously over a long period.

Sheep and Cow Manures

STERILIZED CONCENTRATED WEEDLESS



Sudbury Club Model Soil-Test Kit

This new model in the famous Sudbury line gives a complete season of soil-testing at a far lower price than ever before. Makes 50 individual tests for nitrogen, phosphorus, potash and acidity, showing how to lime and fertilize for best results. Easy to use. Cased in handsome, sturdy, imitation leather. Made by the maker of professional Soil-Test Kits used by experiment stations, nurserymen, growers and greenskeepers throughout the country. The Sudbury Club Model Soil-Test Kit, complete with instructions and helpful chart, \$4.75.

Home Gardener's Soil-Test Kit

Makes 10 tests for each element. \$2.

Sudbury Horticultural Soil-Test Kit. Makes 60 tests for each element. Has test-tube rack, extra tubes, glass funnels, etc. In metal case. \$9.75.

Sudbury Professional Soil-Test Kit. Makes 200 tests for each element. In metal case. \$18.50.

Testing Fluid for Refill (Specify whether for nitrogen, phosphorus, potash, or acidity). 2 ozs. 75 cts., 6 ozs. \$1.50.

"PLANTET" (Complete Plant-Food)

A complete nutrient mixture for growing plants in sand and water. Formula thoroughly tested and approved. "Plantet" is also excellent as a general fertilizer.

8-oz. moisture-proof bottle (sufficient for 35 gallons of nutrient solution) 75 cts. Bulk: 5 lbs. \$2.50, 10 lbs. \$4.

Vitamone Concentrate

Liquid Organic Fertilizer plus Vitamin B₁ and Root Hormones

A complete stimulant, root-developer and fertilizer in highly concentrated Liquid Organic form. Used effectively for seed germination, reduced mortality in propagation and transplanting, and sound healthy growth of flowers, vegetable plants, roses, shrubs, trees, lawns, etc. A 12-ounce bottle makes 12 to 24 gallons. For healthier growth, more luxuriant blooms and finer vegetables apply Vitamone Concentrate diluted according to tested directions for each specific purpose. 2-oz. bottle 25 cts., 4-oz. bottle 50 cts., 12-oz. bottle \$1, 1-gal. jug \$6.

Garden Peat Moss

Loosens heavy clay soils, gives body to sandy soils; increases available fertility; stores up valuable moisture and water-soluble fertilizers for full use of plants. It aerates the soil and prevents hardening, and it promotes the development of vigorous root-growth—the secret of all luxuriant top-growth and beautiful flowers.

As a Protective Mulch against extreme heat of summer and freezing blasts of winter, spread it around base of plants to a depth of 3 to 4 inches.

1/2-bus. bag, 35 cts.; 1-bus. bag, 60 cts.; 1/4-bale sack, \$1.60. Large bale, \$4.25; 5-bale lots, \$4.10 per bale. Delivery prepaid in Pittsburgh and suburban districts.

Improved Driconure

An all-organic fertilizer embodying the best qualities and benefits of Dehydrated Cow Manure, Poultry Manure, and a high-grade Peat Moss. IMPROVED DRICONURE is recommended for general fertilization in garden work at the rate of one bag to 250 to 500 square feet.

7 1/2-lb. pkg.	\$0 50	250 lbs.	\$9 25
50-lb. bag	2 00	500 lbs.	18 00
100 lbs.	3 80		

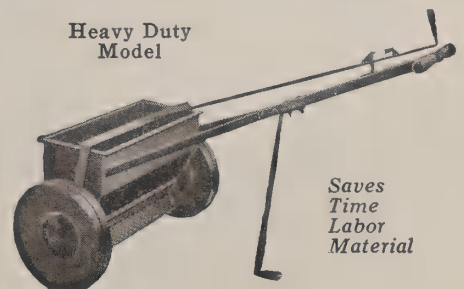
MASTERS FERTILIZER DISTRIBUTORS

Simple, sturdy, and efficient machines for the even distribution of dry commercial fertilizer, grass seed, top-dressing and similar material. Revolving agitator insures free-flowing material. Shut-off control on handle.

Model	Spreading width	Hopper capacity	Price
Baby	16-in.	15 lbs.	\$3 30
Home	18-in.	30 lbs.	6 50
M180*	18-in.	50 lbs.	11 00
M240*	24-in.	75 lbs.	14 50
M361*	36-in.	100 lbs.	22 75

*Heavy Duty Model as illustrated for large estates, cemeteries, golf courses, landscape gardeners, etc.

Heavy Duty Model



Saves
Time
Labor
Material

Insecticides and Fungicides

The Insecticides and machines for applying them, described in this Catalogue, are not novelties in the experimental stage, but have been thoroughly tested and found reliable for the uses for which they are intended.

Customers using large quantities of Insecticides are requested to write to us for special prices, specifying the quantities wanted. Prices quoted are subject to change.

TO CONTROL CHEWING AND SUCKING INSECTS

Bowker's Powdered Arsenate of Lead

Can be used either as a spray or as a dust 'or external chewing insects. It will not burn or injure your crop. It is the fineness of Bowker's Arsenate of Lead that causes it not only to spread and to stick better, but to kill better. Mixes easily, stays well in suspension, with no trouble from clogged nozzles.

Also used extensively for soil-treatment of golf greens and lawns to control white grubs and beetles that infest the sod and eat the roots of grass. Use 4 to 8 pounds for each 1,000 square feet of surface, mixed with top-soil, loam, or fine sand. Use 4 pounds of Arsenate to about 1 bushel of soil.

1-lb. pkg. 30 cts., 4-lb. pkg. 80 cts., 48 lbs. (12 4-lb. pkgs.) \$7.92.

Bowker's Calcide High-grade Calcium Arsenate

Excellent for potatoes and truck crops; it is cheaper than lead arsenate. Use Calcide to kill such pests as potato bugs, bean beetles, and other leaf-chewing insects. Calcide may be applied either wet or dry.

1-lb. pkg. 25 cts., 4-lb. pkg. 50 cts., 48 lbs. (12 4-lb. pkgs.) \$5.04.

Paris Green

¼-lb. carton. \$0 20
1-lb. carton. 60
5-lb. carton. 2 50

Dow's Magnesium Arsenate

Dow's Magnesium Arsenate is an effective insecticide for the control of the Mexican bean beetle and other chewing insects. It proves fully effective without damage to tender bean foliage. As a spray, use 6 teaspoonfuls to 1 gallon of water. For dusting, use 1 part Magnesium Arsenate to 3 parts hydrated lime. 12-oz. can 40 cts., 2-lb. bag 65 cts., 100-lb. drum \$22.50.

Bowker's Pyrox

Kills Bugs—Prevents Blights

A combined insecticide and fungicide containing arsenic and copper in the most effective forms for the control of almost all chewing insects and plant diseases. It makes a fine mist and covers the foliage completely, sticking to the leaves even through the hardest rains.

Pyrox is especially recommended for potatoes. Thorough and frequent spraying will keep the vines healthy. Even when insects and diseases are not troublesome, Pyrox will stimulate the growth of the vines and increase yields. One pound makes 4 to 6 gallons of spray.

25 lbs. \$5, 50 lbs. \$7.25, 100 lbs. \$12.50, 300-lb. barrel \$30.

Hammond's Slug-Shot

ALL-Purpose Insecticide

Hammond's Slug-Shot is used from ocean to ocean. A light, composite, fine powder, it is easily distributed either by dusters, bellows, or in water and sprayed. It is thoroughly reliable in killing the cabbage worm, bean beetle, and other leaf-chewing insects.

Lb. 25 cts., 5 lbs. \$1, 25-lb. bag \$3.

Liquid Slug-Shot

Concentrated Pyrethrum-Rotenone

A highly concentrated spray effective against both leaf-eating and sucking insects. Non-poisonous and absolutely harmless to man, pets, and birds. One ounce makes 6 gallons of spray.

Oz. 35 cts., 4 ozs. \$1, 16 ozs. \$2.25, qt. \$4.

Grasselli's Dutox

Barium Fluosilicate

A Control for Mexican Bean Beetle and Other Pests

An effective control for beetles and leaf-eating insects on vegetables, fruit, etc. It does not injure plants nor impair fertility of the soil. Used as a dust, it is applied either alone or diluted with inert ingredients, or it may be applied as a spray.

1-lb. bag ... \$0 35 | 6-lb. bag ... \$1 20
Case, six 6-lb. bags. 6 12

Powdered Hellebore

½-lb. box ... \$0 35 | 1-lb. box ... \$0 60

Black-Leaf 40

Recommended by experiment stations and by spraying experts throughout the United States and the Dominion of Canada.

The standard contact insecticide for spraying vegetables, fruits, flowers, and plants to destroy aphids, thrips, leaf-hoppers, and similar "sucking" insects. Also effective for dipping purposes. One ounce makes 6 gallons of spray.

1-oz. bottle. . \$0 35 | 2-lb. can. . \$3 25
5-oz. bottle. . 1 00 | 5-lb. can. . 5 85
1-lb. bottle. . 2 25 | 10-lb. can. . 10 60

Rotecide Spray

Rotecide kills red spiders, cyclamen mites, mealy bugs, cabbage worms, beetles, thrips, aphids (plant-lice), and various other insects unusually difficult to control. Rotecide is non-poisonous to birds, animals, or humans. It is a complete spray.

1-qt. can. . \$3 00 | 5-gal. can. . \$35 00
1-gal. can. . 8 00

Hammond's Triad

A combined fungicide and insecticide especially developed for roses, but equally effective for all flowers and vegetables.

4-oz. bottle. . \$0 65 | 1-qt. can. . \$2 50
1-pt. can. . 1 50 | 1-gal. can. . 8 00

Hammond's Rotenone Dust

A general-purpose Rotenone Dust that controls the Mexican bean beetle and most species of aphids, thrips, leaf-worms, beetles, larvæ, and other sucking and leaf-eating insects on vegetables, flowers, small fruit, etc. Does not contain arsenic. Requires 4 to 12 pounds to the acre.

Lb. 25 cts., 5 lbs. 75 cts., 25 lbs. \$3, 50 lbs. \$5.50, 100 lbs. \$10.50.

Pratt's Summer Spra-Creem

An effective and low-cost oil-emulsion spray for controlling sap-sucking insects such as scales, red spiders, mites, aphids, mealy bugs, white flies, thrips, leaf-hoppers, etc. Can be used as a dormant or summer spray. To control tent caterpillars, canker worms, or other chewing insects, add D-X or Arsenate of Lead. Especially suitable for shade trees, shrubs, and evergreens.

½-pt. can. . . \$0 35	5-gal. can. . \$5 30
1-qt. can. . . 65	28-gal. drum. 15 75
1-gal. can. . . 1 75	54-gal. drum. 24 60

Evergreen Spray

A powerful contact spray that kills many kinds of chewing and sucking insects that ordinarily need two different insecticides. Non-poisonous and will not harm pets or people. One ounce makes 6 gallons of spray for aphids.

1-oz. bottle. . \$0 35	16-oz. can. . \$2 15
6-oz. can. . . 1 00	1-gal. can. . 12 20

Hammond's Grape and Rose Dust

Black-spot on roses, powdery mildew on grapes and flowers, blights, leaf-eating insects—all vanish after the use of Hammond's Grape and Rose Dust. A combined fungicide and insecticide used by professional growers for over a half century.

1-lb. can 35 cts., 5-lb. can \$1.25.

Pomo-Green With and Without Nicotine

A Leaf-green ALL-IN-ONE Dust or Spray

Pomo-Green prevents and controls black-spot, mildew, chewing insects and sucking insects on plants, shrubs, and roses quickly and effectively.

Protect new growth by dusting or spraying with Pomo-Green once each week throughout the growing season.

Pomo-Green with Nicotine. The all-in-one material. 1-lb. can 75 cts., 5 lbs. \$3.

Pomo-Green without Nicotine. Used to control diseases and leaf-eating insects only. 1-lb. can 50 cts., 5-lb. carton \$1.75.

D-X PYRETHRUM SPRAY. See page 66.

NICOTINE PYROX. See page 65.

RED ARROW. See page 65.

To Control Fungus, Mildew, Black-Spot, and Rust



Bowker's Powdered Bordeaux Mixture

A powerful fungicide for the control of blights, rusts, and rots on any crops where Bordeaux is recommended by the experiment stations or other agricultural authorities. Fine, light, and fluffy, Bowker's Bordeaux mixes easily and completely. Hence it covers evenly and sticks well to the foliage.

1-lb. pkg. 30 cts., 4-lb. bag 80 cts., 48 lbs. (12 4-lb. pkgs.) \$7.92.

Cupro-K

Recommended as a spray for control of leaf-spot (shot-hole) on sour cherry trees. Is more effective than lime-sulphur and easier to use. Also used as a spray or dust for control of foliage diseases of certain vegetables, such as wilt and leaf-spots on cucumbers, and blight and leaf-spot on tomatoes. 3-lb. bag 70 cts., case (16 3-lb. bags) \$7.92.

"Bell-Mine" Rotary Kiln Lime

Used in spraying mixtures. Endorsed by leading agricultural authorities for Bordeaux Mixtures and for all other home-mixed insecticides and fungicides. Furnished in either pulverized, pebble, or lump form. 180-lb. steel pkg. \$2.90. Larger quantities quoted on request.

Superfine Dusting Sulphur

Controls mildew, black-spot, leaf-spot, and other fungous diseases on roses, chrysanthemums, phlox, delphiniums, snapdragons, and many other plants. 2-lb. sifter carton 25 cts., 10 lbs. 75 cts., 25 lbs. \$1.50, 50 lbs. \$2.50, 100 lbs. \$4.50.

Dow "Mike" Wettable Sulphur

Goes into suspension instantly and used as a spray. 10-lb. bag \$1.35, case (6 10-lb. bags) \$7.25.

Copper Sulphate (Blue Vitriol)

For making Bordeaux Mixture solution. 1-lb. 18c., 5 lbs. 65c., 10 lbs. \$1.10, 50 lbs. \$4, 100 lbs. \$7.50.

Monohydrated Copper Sulphate

For use in all home-mixed dusts requiring Copper Sulphate. Contains approximately 35 per cent Metallic Copper. 12½-lb. bag \$2, 100-lbs. (8-12½-lb. bags) \$13.

Tri-Ogen The Combination Spray

Tri-Ogen gives protection against many plant insects and fungous pests. It is especially recommended for control of insects, mildew and black-spot on roses. The fact that it does three separate jobs in one spraying is perhaps the reason for its great and ever-increasing popularity.

Protects for season

A. Small Kit.	12 to 20 roses ...	\$1 50
B. Medium Kit.	50 to 80 roses ...	4 00
C. Large Kit.	100 to 160 roses ...	6 00
D. Estate Kit.	400 to 600 roses ...	20 00

Fungtrogen

A control for mildew, black-spot, and many fungous diseases.

4 ozs.	\$0 45	1 qt.	\$2 00
½ pt.	75	1 gal.	6 00
1 pt.	1 25		

Dormant Sprays for Control of Scale

Scalecide

Scalecide has proved to be the most effective and safest oil spray for insects and fungous diseases that pass the winter on trees, evergreens, shrubs, and vines. For further description see page 66.

1-qt. can.	\$0 65	5-gal. can.	\$5 50
1-gal. can.	1 55	15-gal. drum.	13 25

Sunoco Self Emulsifying Spray Oil

Scale insects include some of the most dangerous enemies of horticulture. They are small, but propagate so rapidly that neglected trees quickly become incrustated with them. Do not allow these scales to gain a foothold. Sunoco applied as a dormant spray will control most all kinds of scale.

Rusty evergreens, caused by red spider, may be prevented by using Sunoco Spray in May or June.

1-gal. can.	\$1 25	30-gal. drum.	13 20
5-gal. can.	5 00	55-gal. drum.	20 35

Bowker's Liquid Lime-Sulphur Concentrated

Prepared from the highest grade of lime and the purest sulphur, combined in especially designed apparatus and in quantities so large as to allow plenty of time for storage and settling. Thus, the solution which reaches you is cherry-red in color, clear and sparkling. It will not crystallize, thicken up in the barrel, or clog the finest nozzles. If used according to directions, Bowker's Lime-Sulphur will kill every scale that it touches.

1-qt. can 65 cts., 1-gal. can \$1.10, 5-gal. can \$3.40, 30-gal. bbl. \$9.30, 50-gal. bbl. \$11.50.

F.O.B. our warehouse, 30-gal. bbl. \$8.40, 50-gal. bbl. \$10, 3 50-gal. bbls. \$28.50. Containers not returnable.

Agricultural Sulphur

Especially prepared for making Lime-Sulphur solution. 99½ per cent pure, 90 per cent through 80 mesh. 100 lbs. \$3.25, 500 lbs. \$15, 1000 lbs. \$28.50, 2000 lbs. \$52.

Bowker's Dry Lime-Sulphur



Bowker's Dry Lime-Sulphur is made by a special patented process which keeps the product in good physical condition, thus insuring its going into suspension quickly. It is used either as a dormant spray to kill scale or as a summer spray to control fungous diseases such as scab, rot, etc. 1-lb. pkg. 35 cts., 5-lb. pkg. \$1.50, 12½-lb. bag \$1.75, 100 lbs. (8 12½-lb. bags) \$11, 200 lbs. (16 12½-lb. bags) \$21.

Stewart's Lime-Sulphur Hydrometer

Gives specific gravity and Baumé readings. Complete with test-jar. \$1.25, postage 25 cts. extra.

ASK FOR THE HANDY SPRAY GUIDE

Greenhouse Insecticides and Fungicides

Nico-Fume Pressure Fumigator

Nico-Fume Powder packed in hermetically sealed cans. An effective greenhouse fumigator to destroy aphids, thrips, midge, etc. ½-lb. tins 45 cts. each, \$2.40 for 6, \$4.20 per doz.

1-lb. tins, 75 cts. each, \$3.75 for 6, \$7 per doz.

Nico-Fume Liquid

A highly refined solution of free nicotine, guaranteed to contain fully 40 per cent of nicotine. Extensively used for spraying or vaporizing in greenhouses to destroy aphids, thrips, etc.

1-lb. tin \$2.25, 4-lb. tin \$5.75, 8-lb. tin \$10.

Selocide for Red Spiders

Proper application of this powerful insecticide will clean up serious infestations of red spiders, killing both spiders and eggs. Easy to mix.

1-gal. can.	\$3 00	10-gal. drum.	\$24 50
5-gal. can.	13 50	30-gal. drum.	58 50

Hitox

Controls both chewing and sucking insects efficiently and rapidly. Contains the active toxic properties of Rotenone and Pyrethrum. Has its own spreader. Will not spot, stain, or injure the most delicate plant. Use it in the greenhouse and garden, also on shrubbery and trees. 1-gal. can \$9, 5-gal. drum \$40.

New Lethane 440

Particularly recommended for the control of chrysanthemum midge, white fly, thrips, scale insects, red spider, aphids, and mealy bugs. Also recommended as an outdoor contact spray.

1 qt.	\$2 00	5 gals.	\$25 00
1 gal.	5 50		

CYANOGAS G. Fumigant. Fine for greenhouse and mushroom-house fumigation. In the greenhouse, ¼ ounce per 1,000 cubic feet will control aphides, white fly, soft scale, thrips, and other greenhouse pests. (Booklet on request.)

5-lb. tin.	\$3 00	100-lb. drum.	\$25 00
25-lb. tin.	10 00	Not mailable,	

To Control Ants, Moles, Rats, Mice, Groundhogs, Etc.

Terro Ant Killer

Will drive ants in 24 hours from pantries, refrigerators, plants, flowers or any other place infested with them. A clean preparation in syrup form that cannot be blown into food or about the house and can be used without soiling or discoloring floors or receptacles. Terro is guaranteed to do the work or money back. Small size 25 cts., large size 50 cts. Postage 10 cts. extra.

Antrol Ant Killers

Antrol is easy to use, economical, and safe around children and pets. It consists of small glass containers from which the worker ants carry Antrol Syrup to their nests for food. The whole ant family is quickly killed at the source—the only way to get permanent freedom from these pests.

The containers may be refilled and used year after year. Adapted to any size home or garden. Guaranteed.

Antrol Regular Set consists of 4 patented glass containers with rustproof aluminum lids, and one 4-oz. bottle of Antrol Syrup. Especially recommended for homes, estates, gardens, etc. May be used inside or out. 60 cts. per set. Postage 10 cts. extra.

Antrol Ready-Filled Set consists of 4 special glass "feeders" containing regular Antrol Syrup. Ideal for use in apartments, homes, camps, yards, etc. 40 cts. per set. Postage 10 cts. extra.

Antrol Syrup. 4-oz. bottle 20 cts., pt. 50 cts., gal. \$2.75.



Cyanogas Ant-Killer

Ants die instantly when you drop a little Cyanogas Ant-Killer into the entrance to the nest. It is simple and sure. The gas does the work—penetrates all through the nest. 4-oz. tin 30 cts. (Not mailable.)

Magikil Jelly (Ant Bait)

A jelly bait that needs no feeders or traps. Simply place small doses in infested areas. Does not melt at ordinary temperatures. Endorsed by many state experiment stations. Garden tube 35 cts., estate tube 85 cts.



Remo Roach Destroyer

Will destroy roaches and other insects in a few minutes. 8-oz. pkg. 55 cts., 1-lb. pkg. \$1.

Carbon Disulphide

Recommended for killing ants, moles, woodchucks, and ground squirrels. For ants in hills, punch holes at intervals of 10 inches and pour a tablespoonful in each hole, then cover with burlap or similar covering. 1-lb. tin 50 cts., 5-lb. tin \$1.75, 10-lb. tin \$2.50. (Not mailable.)

Little Giant Self-setting Mole Trap

A durable Trap made of steel and heavily tinned. Easily set and a sure method of eliminating this pest.

16½ inches in height over all, 4½ inches wide, made of ⅝-inch band steel. Price \$1. Postage 20 cts. extra.



Mo-Lo

A preparation for the extermination of moles. The smell of MO-LO attracts the moles; they eat it and die underground. Poisonous. Pkg. (1 doz. tablets) 25 cts., doz. pkgs. \$2.75.

Cyanogas A Dust



Acknowledged throughout the world to be the most effective pest destroyer. It is Calcium Cyanide which liberates hydrocyanic acid gas when exposed to the natural moisture in the air and kills the pests wherever they are. They breathe the gas and die instantly. Exterminates moles, groundhogs, rats, mice, ants, fleas, wasps, and various other pests.

½-lb. tin . . . \$0 45	25-lb. tin . . . \$10 00
1-lb. tin . . . 75	100-lb. drum. 25 00
5-lb. tin . . . 3 00	Not mailable.

Cyanogas Hand Duster. \$3.

Cyanogas Foot Pump Duster. \$7.

K-R-O KILLS RATS WITHOUT POISON

K-R-O is made of red squill, an ingredient recommended by the U. S. Government as sure death to rats and mice, but which will not kill anything else. 2-oz. size, 75 cts.; 4-oz. size, \$1.25; 8-oz. size, \$2.

K-R-O Ready Mixed. 6-oz. size, 35 cts.; 22-oz. size, \$1, postpaid.

Pastoxine

Exterminator of rats and mice. Non-poisonous as well as repulsive to man, domestic animals, and poultry. Appetizing to rodents. Causes asphyxia (they run out for air and water to die). Highly concentrated—about 6 grains will kill a rat, a few grains a mouse. 1-oz. jar (about 400 grains) 60 cts., 1-lb. jar \$5, postpaid.

Mouse Seed

Safer and more convenient than traps or any paste or powder preparations. Ready to use. 25 cts., postpaid.

Weed Killers

Silver Sand Kills Lawn Weeds

A simplified chemical control for crabgrass, dandelions, plantain, chickweed, ground ivy, and broad-leaved weeds, without injury to permanent grasses. Broadcast at the rate of 25 to 40 pounds on each 1,000 square feet of weedy lawn. Can be spread by hand, but a standard fertilizer spreader will give even distribution. Complete directions in every bag. 15-lb. bag \$1, 50-lb. bag \$3, 100-lb. bag \$4.50.

Atlacide

Kills poison ivy, Canada thistle, quack grass, wild morning-glory, and other weeds and grasses. Kills completely by penetrating the roots. Non-poisonous to animals or people. Odorless. Use as a spray. Apply with sprinkling can or pressure sprayer. A pound dissolved in one gallon of water will kill about 100 square feet of weeds.

5-lb. tin. . . \$1 50	50-lb. drum. . \$6 75
15-lb. drum. 3 00	100-lb. drum. . 12 50

Hammond's Weed Killer

Will kill weeds, poison ivy, and all vegetation without distinction, so it must be used cautiously where grass is desired. Dilute 1 gallon to 30 to 40 gallons of water. Apply with a sprinkling-can. Qt. 50 cts., gal. \$1.50, 5 gals. \$6.25, 30-gal. drum \$30.

Dry Sodium Arsenite

Used quite extensively as a weed-killer and for control of crab grass in turf. Use 4 to 6 ounces in 5 gallons of water to each 1,000 square feet of turf or lawn. Also recommended for killing trees. 5-lb. can \$1.75, 15-lb. tin \$3.25, 50-lb. drum \$7.50, 100-lb. drum \$11.

Dandelions Can Be Destroyed

Wonderfully quick, easy method to rid your lawn of dandelions—merely touch the dandelion with No-Stoop Applicator and the entire plant dies, dries up, and blows away.

No digging—no pulling—no stooping. Dan-D-Lion Killer Chemical in the special No-Stoop Applicator does all the work.

Combination Outfit (No-Stoop Applicator and 1 qt. Chemical), enough to kill 1,500 weeds \$1 95



KILLER KEMICAL.

1-qt. can. \$1 05
½-gal. can. 1 45
1-gal. can. 2 35
5-gal. can. 9 85
10-gal. drum. 18 50
30-gal. drum. 48 00
No-Stoop Applicator \$1.25.

Seed and Soil Disinfectants and Seed Inoculation

Reduce grain-disease losses and increase yields with

New Improved Ceresan

Use this dry treatment on seed wheat, oats, dry barley and peas to reduce seed-borne disease, step-up your yield, increase your profit. Tests by experiment stations prove its power against smut of barley, loose and covered smuts of oats, stinking smut of wheat, and seedling blight of all three. Increased yields repay its small cost many times. Easily applied to seed grain as directed. One pound treats 32 bushels.

4 ozs. 30 cts., lb. 75 cts., 5 lbs. \$3.25, 25 lbs. \$14.

Make sure of a better corn yield by treating seed with

Semesan Jr.

Seed-corn treatment with Semesan Jr. amounts to *real crop insurance*. At the extremely low cost of 1½ cents an acre, it reduces seed rotting, checks seedling blight and certain seed-borne rots of root and stalk—gives corn the healthy start necessary for a big yield. Treats both seed field and sweet corn by the quick, easy dusting method. Only 1½ ounces needed per bushel.

1½ ozs. 15 cts., 4 ozs. 30 cts., lb. 75 cts., 5 lbs. \$3, 25 lbs. \$12.50.

Corrosive Sublimate

Mercuric Chloride, Bichloride of Mercury

Recommended for the control of large brown-patch in bent grasses, also prevents damping-off of vegetable and flower seedlings.

¼-lb. bottle \$1, 1-lb. bottle \$3.25, 5-lb. bottle \$14.50, 25-lb. box \$64. (Not available.)

Cuprocide Red Cuprous Oxide

Recommended to prevent seed-decay and damping-off before emergence. (Use yellow Cuprocide for control of post-emergence damping-off.) Assures profitable stands under adverse conditions. Cuprocide can be used on both vegetable and flower seeds—simply shake a small amount together with the seeds. A safe and very economical treatment.

4-oz. can 35 cts., lb. 90 cts., 5 lbs. \$4.

Yellow Cuprocide

The New Yellow Copper Oxide Spray. An effective, safe and convenient fungicide for potatoes, tomatoes, celery, vine crops, and other vegetables. Suspends easily in the spray tank. Use 1½ pounds per 100 gallons of spray. Also recommended for control of post-emergence damping-off.

3-lb. bag \$1.35, case (16 3-lb. bags) \$19.20.



DU BAY SEED DISINFECTANTS

Lower costs and better potato yields with

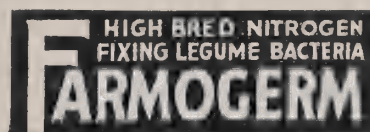
Semesan Bel

Closely checked tests have proved that any potato grower can usually expect better returns from his seed if he treats it with Semesan Bel before planting. At an average cost of 21 cents an acre this quick dip treatment—by reducing seed-piece decay and seed-borne scab and rhizoctonia—increased the average yield 13.6%. Result—lower growing cost and more profit! No mussy soaking. Treat your seed as fast as you can dip it. One pound treats 60 to 80 bushels of seed—easily, quickly, inexpensively.

2 ozs. 25 cts., lb. \$1.50, 5 lbs. \$6.50, 25 lbs. \$30.

Napthalene Flakes

Used principally to kill thrips on gladiolus bulbs in storage during winter. Lb. 25 cts., 3 lbs. 65 cts., 10 lbs. \$1.95.



FARMOGERM bacteria are from selected strains. They are put up in a special sterile jelly medium which, with the ventilated stopper for constant air-supply, insures a culture of unusually great virility and long life.

Inoculate all Clovers, Soy Beans, Alfalfa, Peas, Beans, Vetches.

For all Clovers and Alfalfa (Small Seeds), ½ bus. 40 cts., 1 bus. 65 cts., 2½ bus. 95 cts.

For all Vetches, Peas and Beans, Soy Beans, Lespedeza, and CowPeas (Large Seeds), 1 bus. 40 cts., 2 bus. 65 cts., 5 bus. 95 cts.

Garden Size. For Garden Peas, Beans, and Sweet Peas, 25 cts.

HUMOGERM. Moist humus base inoculant. Packed in aerated containers with guaranteed high count of active nitrogen fixers.

Small Seeds. ½ bus. 25 cts., 1 bus. 40 cts., 2½ bus. 80 cts.

Large Seeds. 1 bus. 25 cts., 2 bus. 40 cts., 5 bus. 80 cts.

Note. When ordering don't fail to state the kind of legumes to be inoculated.

Prevent Brown-Patch with
Du Bay Fungicides

Regular applications of Special Semesan, Semesan, or Nu-Green prevent or control the development of brown-patch and assist normal, healthy turf-growth. Special Semesan, giving tremendous coverage (6,000 square feet per pound), greatly reduces the cost of treatment. Semesan is recommended where soil-fertility is high; Nu-green where fertility is lower. Free Turf Disease Pamphlet gives full details.

Special Semesan: 8 ozs. \$1, 5 lbs. \$7, 25 lbs. \$32.50, 100 lbs. \$125.

Nu-Green: 3 ozs. 35 cts., lb. \$1.45, 5 lbs. \$6.25, 25 lbs. \$28.75, 100 lbs. \$110.

Disease control—better stands—sturdier plants with

Semesan

Treat your seeds, corms, bulbs, and seedlings with Semesan. Used as a dust or in solution with water, Semesan reduces seed rotting and damping-off, is highly effective against many seed-borne diseases, even prevents contamination of the soil by certain seed-borne diseases. One ounce treats 15 to 30 pounds of seeds.

½ oz. 10 cts., 2 ozs. 35 cts., lb. \$2.25, 5 lbs. \$10, 25 lbs. \$46.



Formaldehyde

Invaluable as a disinfectant, fungicide, germicide and deodorant on the farm and in the home.

For Grain-Smut Control.

An efficient control for smuts of wheat, barley, oats, and rye. Can be applied by the sprinkle, dip, or spray method. A one-pound can will treat 50 to 55 bushels of seed grain.

For Seed-Potato Treatment. Controls scab, rhizoctonia, and some forms of black-leg and dry rot which cut down the stand, cripple the potatoes, and reduce the yields. Potatoes are usually treated just before planting but this work may be done at any time in the winter or spring.

For Soils and Vegetables. Prevents damping-off of seedlings in seed-beds and greenhouse benches; controls onion smut, root-knot, and other diseases.

Mushroom Disease Control. Fumigation with Formaldehyde has been found to be the most satisfactory means of control of the "bubbles" disease.

Lb. can 35 cts., 10 1-lb. cans \$3, case (50 1-lb. cans) \$13, 60-lb. keg \$9.50.

Ask for booklet and full directions.

Terogen

A scientific autumn-winter soil-treatment for rose-gardens.

Lb. 75 cts. 2 lbs. \$1.25, 5 lbs. \$2.75, 25 lbs. \$11.

To Control Cutworms, Earthworms, Grubs, Sowbugs, Borers, Etc.

Paradow ■ Paradichlorobenzene

Paradow is recommended for the control of peach-tree borers. When placed around the base of a peach tree, it will generate a gas that will kill the borers in that tree. Should be used in spring or fall when trees are not growing vigorously. Use about 1 ounce per tree. Directions on container.

1-lb. pkg. 50 cts., 5-lb. pkg. \$1.75, 25 lbs. \$6, 50 lbs. \$10.

Ethylene Dichloride

For the control of the peach borer.

1 qt. \$1 25	5 gals. \$8 00
1 gal. 3 25	10 gals. 13 50

Para-Scalecide

Eliminates much of the danger and saves labor in the control of borers in peach and other trees. Comes in liquid form. Dilute one gallon in 7 gallons of water and it is ready to apply directly to the tree. Ask for special leaflet.

1-qt. can. \$0 75	5-gal. can. \$6 90
1-gal. can. 2 00	15-gal. drum. 15 00

Vermol Worm Eradicator

Effective in promptly bringing earthworms to the surface and killing them. Apply at the rate of one pound to 18 square feet and water in thoroughly.

25 lbs. \$3 00	100 lbs. \$7 50
50 lbs. 4 25	500 lbs. 35 00

Mowrah Meal

For eradication of earthworms in lawns and greenhouses. One pound to 20 sq. ft.

25 lbs. \$1 75	100 lbs. \$4 75
50 lbs. 2 75	500 lbs. 22 00

Snarol

With Metaldehyde ■ an Attractant

Cutworms, sowbugs, grasshoppers, slugs, snails, earwigs, etc., are quickly exterminated.

Snarol is a ready-prepared meal that you simply broadcast on the ground, under the vegetation. Pests eat it at night and are quickly destroyed. It will not deteriorate from rain or sprinkling, and is non-injurious to vegetation.

1½-lb. pkg. 35 cts., 4-lb. pkg. 85 cts., 15-lb. bag \$3, 50-lb. bag \$8.

Arsenate of Lead. Used for the control of white grubs and beetles in the lawns. See page 60.

Miscellaneous

Tree Tanglefoot

A sticky material for banding trunks of trees, vineyards, etc., to protect them against the ravages of climbing insect pests.

No mixing is required. It comes ready for use and is easily and quickly applied with a wooden paddle. One pound makes 15 to 20 lineal feet of band.

6 ozs. 35 cts., lb. 70 cts., 5 lbs. \$3.25, 10 lbs. \$6.25, 25 lbs. \$12.75.

Balsam Wool Tree Bands



Used with Tree Tanglefoot where indirect banding is desired. May be removed after insect season is over. Also makes an impenetrable barrier band for rough-barked trees. Width 3 inches. Comes in rolls containing 16½ lineal feet. Per roll 35 cts., 12 rolls \$3.75.

Bartlett Tree Paint

Contains ingredients necessary to protect trees after pruning; also healing of tree wounds. Used by orchardists, tree surgeons, and state foresters.

Liquid. ½-pt. 35 cts., pt. 55 cts., qt. 90 cts., gal. \$1.80, 5 gals. \$6, 30 gals. \$30.

Plastic. Used for cavities and crevices, ½-pt. 50 cts., pt. 75 cts., qt. \$1.10, gal. \$2.10, 5 gals. \$7.

Crystal Borer Repellent

Recommended as a treatment to protect certain species of deciduous trees and evergreens from infestation by many forms of borers. Apply with brush to main trunk and branches.

1-qt. can. \$1 10	5-gal. drum. \$8 00
1-gal. can. 2 40	10-gal. drum. 14 00

Stanley's Crow Repellent

Protects Your Corn

During the period when it is most easily damaged, by ridding your crop of crows and other corn-pulling birds, and animal pests, such as moles, gophers, woodchucks, squirrels, etc.

It positively will not clog any planter. It protects seed from rotting in the ground. It will not kill birds or animals, but *will* keep them away.

1-qt. can, enough for 4 bus. seed, \$1.75;
1-pt. can, enough for 2 bus. seed, \$1;
½-pt. can, enough for 1 bus. seed, 60 cts.

Tobacco Stems

Bale (about 200 lbs.) \$3.25, 3 bales \$9.

Kayso

Spreads the Spray and Makes It Stay

A combined casein spreader and adhesive. Helps to reduce spray injury, retards harmful chemical reactions, keeps tank clean.

2 lbs. 55 cts., case of 24 2-lb. pkgs. \$9.60, 100 lbs. \$18.

C. P. O.

Insecticidal Soap Spreader

Gives better control of Lace Bug, Red Spider, Juniper Scale, Lilac Scale, Pine-Leaf Scale, Spruce-Gall Aphis, Euonymus Scale, Aphids and most sucking insects on evergreens and ornamentals.

Use this **safe, odorless, non-poisonous** spreader in place of fish-oil soaps and summer oils.

C. P. O. Liquid

1-pt. can. \$0 60	5-gal. drum. \$8 50
1-qt. can. 1 00	10-gal. drum. 13 50
1-gal. can. 2 50	30-gal. drum. 33 00

C. P. O. Solid

6-lb. can. \$1 75	50-lb. keg. \$9 85
25-lb. can. 5 75	100-lb. keg. 16 00

Whale-Oil Soap

Effective in destroying many sucking insects and lice on plants, trees, ferns, etc. It is an excellent wash to use on rose bushes, porch flowers, vines, rubber plants and palms. Also used as a spreader and adhesive where required.

½-pt. can 35 cts., 1-pt. can 65 cts., 1-qt. can \$1, 1-gal. can \$3, 5-gal. can \$12.

Trowbridge's Grafting Wax

Used by softening in warm water, or by the warmth of the hand. It can then be drawn out as thin as paper and spread on the cut and around the graft.

½-lb. pkg. 30 cts., 1-lb. pkg. 50 cts., dozen 1-lb. pkgs. \$5.40.

Tobacco Dust

A specially ground Tobacco Dust, guaranteed to contain not less than ½ of 1 per cent nicotine. It is particularly useful wherever a dusting powder is desired to destroy plant-lice. Owing to its extreme fineness it readily floats in the air, enveloping the entire shrub or tree in a dense cloud.

2-lb. carton 25 cts., 10-lb. pkg. 75 cts., 100-lb. sack \$3.25, 500 lbs. \$15.

Dogzoff

An efficient repellent against dogs, cats or rabbits. Not poisonous to plants and will not injure animals. Not offensive to humans. Applied with any small sprayer. Bottle 60 cts., postpaid.

DELIVERY: At prices given in this catalogue, Insecticides and Fungicides ■ delivered prepaid on orders amounting to \$2 or more. On orders less than \$2, include postage at rates given on page 143 under Parcel Post Shipments.

-NON-POISONOUS-

RED ARROW
GARDEN SPRAY

PYRETHRUM-ROTENONE

Save work by killing insects with Red Arrow Garden Spray. No need to spend time and money for two sprays, one for sucking and one for chewing insects—Red Arrow effectively controls both and leaves no poison residue. A very highly concentrated pyrethrum Rotenone spray.

Oz.....\$0 35
4 ozs..... 1 00

KILLS BOTH SUCKING AND CHEWING INSECTS
LEAVES NO POISON RESIDUE

Simply mix with water. One ounce makes several gallons of spray. Will not injure plants, nor affect fertility of the soil. Harmless to animals and humans.

Pt.....\$2 85
Qt..... 5 00
Gal.....10 70

FOR MUSHROOM GROWERS

Use **Black Arrow 2700**—A specially prepared pyrethrum dust for the control of mushroom flies. Always uniform in killing power.

10 lbs.....\$3 80 | 50 lbs.....\$16 50
25 lbs..... 8 75 | 100 lbs..... 30 00

McCORMICK'S ROTENONE DUST

Kills bean beetles and other resistant crop pests. Use as a dust or spray. Leaves no poisonous residue. Used by commercial growers and home-gardeners.

Lb.....\$0 25 | 25 lbs.....\$4 00
2 lbs..... 45 | 50 lbs..... 7 50
5 lbs..... 85 | 100 lbs.....14 00



DELIVERY: REFER TO BOTTOM OF PAGE 64

**A Complete Spray**

Nicotine
Pyrox
TRADE MARK REGISTERED

Nicotine Pyrox protects plants against insect pests, blight, and other fungous diseases. Because it contains all the necessary ingredients properly and scientifically blended, Nicotine Pyrox is a complete garden spray. It contains nicotine to combat sucking insects, arsenic poison to control leaf-eating insects, as well as a copper ingredient which provides protection against fungous diseases.

Nicotine Pyrox comes in a mixed paste form, ready to use. Just dilute with water, and spray. It sticks to the

foliage and does not easily wash off, providing a lasting protection. The paste form of spray material is recognized by authorities as the most efficient form of spray material because it permits the finest mist-like spray which settles like fog over the plant, completely covering the surface of the foliage. Such a fine mist-like spray as Pyrox provides is possible only because Pyrox is a chemical precipitate which makes the minute Pyrox particles many times finer than any dry, powdered material can be ground.

17.6-oz. jar (makes about 4 gals. spray) 50 cts., 5-lb. drum \$1.75, 25-lb. drum \$5.65

DELIVERY: REFER TO BOTTOM OF PAGE 64

HORMODIN "A"

Hormodin "A" contains the hormone-like plant-growth substance that stimulates rapid root-growth on cuttings, enabling growers to propagate from cuttings in higher percentages than ever before possible. Hormodin "A" comes in liquid form and offers the possibility of treating cuttings with any desired concentration of the active ingredient. Directions in every package. Ask for booklet.

5-cc. pkg...\$0 50 | 120-cc. pkg...\$4 50
15-cc. pkg... 1 00 | 240-cc. pkg... 8 00
60-cc. pkg... 2 50

HORMODIN POWDERS

The active ingredient in Hormodin Powder is the same active substance which is used in Hormodin "A".

No. 1. For soft wood cuttings. 1¾-oz. pkg. 50 cts., 1-lb. pkg. \$3.

No. 2. For less sensitive species and semi-woody types. 1¾-oz. pkg. 75 cts., 1-lb. pkg. \$4.50.

No. 3. For the more resistant species. 1-oz. pkg. \$1, ½-lb. pkg. \$4.50.

Combination Package. Consists of ½-oz. pkg. No. 1, ¼-oz. pkg. No. 2, ¼-oz. pkg. No. 3, all for 75 cts.

ROOTONE

The plant hormone powder for cuttings, seeds, bulbs, corms, and tubers

Most cuttings not only root faster when treated with Rootone, but develop larger root systems that enable them to mature to greater perfection. Just dip the base of the moistened cutting in Rootone and set in sand or soil.

Seed treated with Rootone germinates faster, roots deeper and produces stronger, more disease-resistant seedlings.

¼-oz. pkt. 25 cts., 2-oz. jar \$1, 1-lb. can \$5.

SCALECIDE

THE COMPLETE DORMANT SPRAY

"Makes a Tree Outgrow Its Troubles"

Since 1904, Scalecide has been famous for its effectiveness against the San Jose scale and all other scale insects, because it has always been a miscible oil of the highest quality. But Scalecide is not only a scale spray; it kills all other pests which winter on the tree. It is the complete dormant spray. Applied as a delayed dormant spray in the spring, diluted 1 to 15 (12 gallons to a 200-gallon spray tank), Scalecide controls aphids, European red mite, pear thrips, and red bug; diluted 1 to 12½ (15 gallons to a 200-gallon spray tank), it also controls leaf-roller. Applied in the fall (1 to 15), Scalecide controls peach leaf-curl and pear psylla. Either fall or spring spraying with Scalecide (1 to 15) controls scale, bud-moth, case-bearer, leaf-miner and fungous cankers.

Scalecide Is Guaranteed

Scalecide is guaranteed to make a better orchard than lime-sulfur or oil-emulsion. Ask for copy of full guarantee. Scalecide costs more but it is worth it because it does so much more than any spray you can use. The year-after-year use of Scalecide shows a marked invigorating effect on the trees.



PRICES	
1 qt.	\$0 65
1-gal. can.	1 55
5-gal. can.	5 50
15-gal. drum \$11.25. Returnable drum extra \$2.	13 25
30-gal. drum \$18.50. Returnable drum extra \$2.50.	21 00
50-gal. drum \$26. Returnable drum extra \$3.	29 00

Deposit on drum refunded when returned to B. G. Pratt Co., Hackensack, N. J., prepaid.
Price on 5 drums and upwards quoted on request. ASK FOR SCALECIDE BOOKLET.



The Powerful Garden Spray of Rotenone and Pyrethrum

An economical spray for both sucking and chewing insects. Non-poisonous to humans or warm-blooded animals. Kills and repels aphids, thrips, Mexican bean beetles, tent caterpillars, canker worms, cabbage worms, leaf hoppers, red spider, etc.

D-X is the latest scientific development in contact sprays. Dilutes 1-800 for aphids, stronger for more resistant insects. D-X combined with Sulfocide makes an all-purpose spray for insects and fungous diseases. D-X combined with arsenate of lead makes the most effective poison insecticide known for control of codling moth, canker worms, etc.



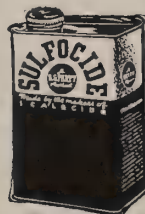
PRICES

1½ oz. bottle.	\$0 35
1½-pt. can.	1 15
1-pt. can.	2 00
1-qt. can.	3 25
1-gal. can.	8 75
5-gal. can.	37 50

SULFOCIDE

A Better Summer Spray

A powerful fungicide for fruits, vegetables and flowers, especially effective for mildew, rust, anthracnose, brown rot and other fungous diseases. Sulfocide combined with D-X makes an all-purpose spray for insects and fungous diseases.



PRICES

1-pt. can.	\$0 50
1-qt. can.	85
1-gal. can.	2 25
5-gal. can.	7 50
10-gal. can.	13 50
30-gal. drum.	33 00
50-gal. drum.	50 00

Drums not returnable



Spray Catalizer

A spreader, sticker, and safener for sulfur sprays. Particularly effective for use with arsenate of lead and Sulfocide or arsenate of lead and lime-sulfur mixtures. It controls the normal breakdown of polysulphides and reduces lime-sulfur injury. 2-lb. bag 55 cts., case (24 2-lb. bags) \$9.60, 50-lb. bag \$9.

Lawn and Garden Tools

Stakes



Wooden, Round, Tapering, painted green.
Light Stakes are made from western white pine and the heavy from cypress.

	Doz.	100
1½ ft. long, light weight....	\$0 35	\$1 75
2 ft. long, light weight.....	50	3 25
3 ft. long, light weight.....	1 00	6 00
4 ft. long, light weight.....	1 40	8 75
3 ft. long, heavy weight.....	1 40	9 00
4 ft. long, heavy weight.....	1 75	12 00
5 ft. long, heavy weight.....	2 25	15 00
6 ft. long, heavy weight.....	2 50	18 00

Hyacinth. 12 in. long.....\$0 30 \$1 50
18 in. long.....40 2 00

Japanese Bamboo Canes. Dyed green. Uniform pencil thickness throughout. Just the thing for pot-plants and plants that need just a light support.

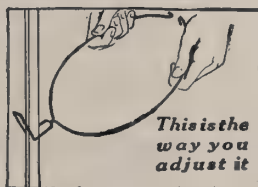
	Doz.	50	100	1,000
24 in. long..	\$0 10	\$0 25	\$0 40	\$2 75
36 in. long..	15	35	60	4 25
48 in. long..	20	50	90	6 75

Heavy Bamboo Tonkin Stakes. Make excellent supports for dahlias and plants of this type. Natural finish.

	Diam.	Doz.	50	100
4 ft. ½ to ¾ in.....	\$0 70	\$2 40	\$3 75	
5 ft. ¾ to 1 in.....	90	3 25	5 50	
6 ft. ¾ to 1 in.....	1 00	3 50	6 00	
8 ft. ¾ to 1 in.....	1 10	4 00	7 00	

Adjusto Plant Supports

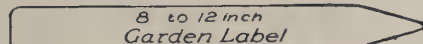
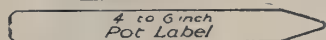
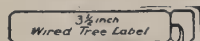
A sturdy, hardwood stake seven-eighths inch square, with a strong wire support instantly adjustable to any height. A suitable support for tomatoes, dahlias, peonies, and all similar plants.



This is the way you adjust it

	Each	Doz.	Each	Doz.
3 ft....	\$0 25	\$2 10	5 ft....	\$0 30
4 ft....	28	2 40	6 ft....	35

Garden or Pot Labels (Painted)



	100	500	1,000
4 in. x ¾ in. wide....	\$0 40	\$1 50	\$2 50
5 in. x ¾ in. wide....	45	1 65	2 75
6 in. x ¾ in. wide....	50	1 75	3 00
8 in. x ¾ in. wide....	80	3 25	6 00
10 in. x ¾ in. wide....	90	3 75	7 00
12 in. x 1 ½ in. wide....	1 25	5 25	10 00
3 ½ in., copper-wired.	60	2 00	3 25

Evermark Label Pencil. Makes a permanent record on garden labels. 20 cts. each.

TWIST-EMS'

The New Handy Plant-Tie



Strong tapes with wire reinforcing that make perfect plant-ties. For perennials, annuals, shrubs, vines, etc. No twine or raffia needed. Dark green color. Pkg. 250 4-in. or 125 8-in., 25 cts. each; carton (5000) 4-in., \$3.60, 6-in., \$5.10, 8-in., \$6.60, 16-in., \$12.

Earthen Flower Pots



Standard Pots

Inside diam.	Each	Doz.
2 ½ in....	\$0 04	\$0 30
4 in.....	07	60
5 in.....	10	1 00
6 in.....	15	1 50
7 in.....	25	2 50
8 in.....	35	3 25
9 in.....	50	5 00
10 in.....	70	7 00
12 in.....	1 30	14 00

Flower-Pot Saucers

Inside diam.	Each	Doz.
4 in....	\$0 05	\$0 45
5 in....	07	65
6 in....	10	90
7 in....	15	1 35

Azalea Pots

Inside diam.	Each	Doz.	100
6 in. x 4 ¾ in. deep....	\$0 15	\$1 50	\$10 50
7 in. x 5 ¼ in. deep....	25	2 50	17 50
8 in. x 5 ¾ in. deep....	35	3 25	23 00
9 in. x 6 ¼ in. deep....	50	5 50	39 00
10 in. x 6 ¾ in. deep....	65	7 00	48 00

Low Pans

Inside diam.	Each	Doz.	100
5 in. x 3 ¾ in. deep....	\$0 10	\$1 00	\$7 00
6 in. x 3 ½ in. deep....	15	1 50	17 50
7 in. x 3 ¾ in. deep....	25	2 50	17 50
8 in. x 4 in. deep.....	35	3 25	23 00

Cedar Plant Tub

Made of seasoned, selected Virginia white cedar, bound with electric welded wire hoops, and painted with the best oil paints—a handsome green color inside and out. Regularly furnished with no handles.



Size	Inside top diam.	Inside bot. diam.	Inside depth	Each
No. 1.	6 in.	5 in.	6 in.	\$0 50
No. 3.	8 in.	6 in.	8 in.	75
No. 5.	10 in.	7 ½ in.	9 in.	90
No. 7.	12 in.	9 in.	11 in.	1 35
No. 9.	14 in.	11 in.	13 in.	2 00
No. 11.	16 in.	12 ½ in.	15 in.	2 50
No. 13.	18 in.	14 ½ in.	17 in.	3 00

Steel handles if desired, 25 cts. per tub, extra

Raffia

For tying, bunching, basket-making, etc.
Natural. In plaits. Lb. 35 cts., postpaid 45 cts.; 10 lbs. \$3, postpaid \$3.25.
Green. Bundle (about 1 lb.) 95 cts.
Natural Green Moss. In sheets. Bag, about 2 bushels, \$1.50.

Francis Wall Nails

Shanks made of malleable iron with soft lead heads for securing climbing plants to walls, fences, trellises, etc.

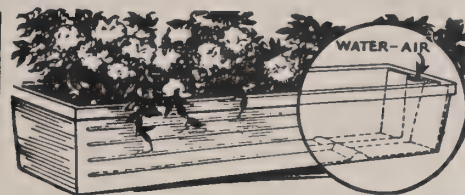
	100	1000
1-in.....	\$2 25	1 ¾-in.....\$3 50
1 ¼-in.....	2 60	2-in.....4 00
1 ½-in.....	3 00	

Garden Club Flower Shears

Cuts and holds stem in one operation. Made of quality steel. Will not rust. \$1.

Eversharp Flower Shears

Just the Shears for cutting flowers. Snips and holds in one operation. No. 750. 75 cts.



The Perfecto Flower-Box

Proper Irrigation : Proper Ventilation

Provides correct, approved, scientific principles for raising luxuriant plants and flowers indoors or outside. Patented system with water entrance at both ends feeds water properly at roots of plants and circulates air beneath soil; keeps it from souring. Finished in green enamel.

	Each
14 in. long, 6 in. deep, 7 in. wide....	\$1 00
20 in. long, 6 in. deep, 7 in. wide....	1 25
26 in. long, 6 in. deep, 7 in. wide....	1 50
32 in. long, 6 in. deep, 7 in. wide....	1 75
38 in. long, 6 in. deep, 7 in. wide....	2 50
44 in. long, 6 in. deep, 7 in. wide....	3 00



Wotherspoon Watering Pots

Heavy galvanized iron, reinforced; well made and substantial. Each pot has a long spout, with one fine and one coarse rose. Made especially for professionals.

Round Pattern.

	Each
8-qt.....	\$5 65
10-qt.....	6 00
12-qt.....	6 35

Lisk Galvanized Watering Pots

Made of heavy galvanized steel. Has reinforced top handle. Each

6-qt.....	\$1 00
8-qt.....	1 20
10-qt.....	1 30
12-qt.....	1 45
14-qt.....	1 85



Dazey Flower Holders

Dazey Flower Holders meet the requirements for all flower arrangements. Well made and attractively finished. Ask for circular showing other sizes and styles.

No. 69.	¾-in. diam. (2 in pkg.)	\$0 25
No. 70.	1 ½-in. diam.	25
No. 71.	2 ½-in. diam.	50
No. 72.	2 ¾-in. diam.	75
No. 73.	3 ½-in. diam.	1 00
No. 81.	1 ½-in. x 3 ½ in.	75
No. 90.	1 ¼ in. x 2 ¾ in.	50
No. 203.	Ivy Leaf. 2 ¾-in. base.	75
No. 206.	Eucalyptus Leaf. 2 ¼ x 6-in. base.	1 25
No. 222.	Interlocking Leaf. 2 ¼ x 5-in. base.	1 25



Garden and Field Hoes

- No. G. 4 1/3-ft. handle, steel socket, best quality. 6 and 6 1/2-in. blade, \$1.15 each; 7 and 7 1/2-in. blade, \$1.25 each.
 No. PG. 6 or 7-in. blade, 4-ft. handle, steel socket, light weight. 80 cts.
 No. LY5 Ladies' Hoe. 5-in. blade. \$1.



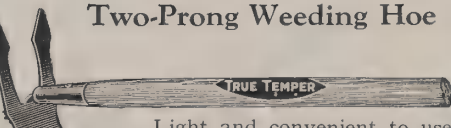
One-Piece Steel Mattock

Just the tool for heavy soil. Has two oil-tempered blades. Strong and light. 4 1/2-ft. ash handle.
 No. DE3H. \$2.
 No. DE3. Two-piece. \$1.50.



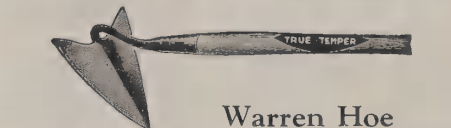
One-Prong Weeding Hoe

A handy tool for the garden.
 No. 1PF. 90 cts.



Two-Prong Weeding Hoe

Light and convenient to use. Width of blade 3 5/8 inches. No. 2PF. \$1.
 With heavy forged blade. No. 2PH. \$1.10.



Warren Hoe

No. W. 7 1/2-in. blade, 4 1/2-ft. handle. \$1.35.
 Baby Warren Hoes No. BW. 4 1/2-in. tempered steel blade, 6 1/2-in. handle. 85 cts.



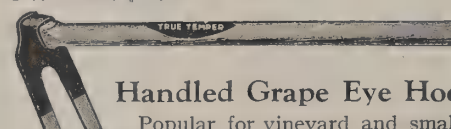
Square Eye Handled Hoe

Forged and drawn from one solid piece of steel. 4 1/2-ft. handle. No. GE6-O. With 4 1/2-in. blade, \$1. No. GE3-O. With 6-in. blade, \$1.20.



Italian Grape Hoe

Blade and eye forged from one solid piece of steel. Blade, 7 in. wide X 9 in. deep, 3 1/2-ft. ash handle. A heavy tool for heavy work.
 No. IGH7. \$2.50.

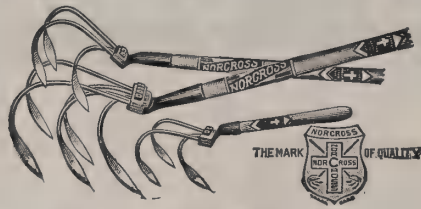


Handled Grape Eye Hoe

Popular for vineyard and small fruit-patches. With 4-ft. handle.
 No. HG2P. \$1.75.

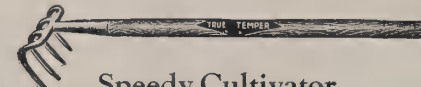
Potato Hook

Four diamond-back tines; goose neck. 4 1/2-ft. handle. No. 4GND. \$1.40.



Norcross Hand Garden Cultivator

- No. 55N. 5-prong, 4-ft. handle. \$1 25
 No. 33N. 3-prong, 4-ft. handle. 1 00
 No. 11N. Midget, 9-in. handle. 60
 Midget by parcel post, 10 cts. extra; 3-prong and 5-prong, 15 cts. extra.



Speedy Cultivator

A very useful tool for work around flowerbeds, shrubs, and roses. No. SC4. With 4 tines. \$1.10. No. FW3. With 3 tines. \$1.

Spades

- Garden. D-handle, blade 7 1/4 x 12 in. \$1 75
 Garden. Long handle, blade 7 1/4 x 12 in. 1 75
 Drain. D-handle, blade 5 1/2 x 16 in. 2 00
 Nursery. For heavy work. Blade 5 3/4 x 12 3/4 in. 4 10

Forks



Spading Forks

- No. OHW. Flat tines 11 in. long, wood D-handle. \$2 00
 No. OHD. Flat tines 11 in. long, steel D-handle. 1 75
 No. GCSF. Flat tines 10 in. long, Boy's steel D-handle. 1 00
 No. POLD. Flat tines 11 in. long, steel D-handle. 95
 No. ED4D. English Digging. Square tines 11 1/2 in. long. Steel D-handle. 2 50



Hay Forks. Oval tines, tubular ferrule.

- No. 034B. 4-ft. handle. \$1 50
 No. 034 1/2 B. 4 1/2-ft. handle. 1 60
 No. 035B. 5-ft. handle. 1 70
 No. 035 1/2 B. 5 1/2-ft. handle. 1 85
 No. 036B. 6-ft. handle. 2 00

Manure Forks. Oval tines, tubular ferrule.

- No. 044. 4-tine, 4-ft. bent handle. \$1 75
 No. 04D. 4-tine, iron D-handle. 1 85
 No. 064. 6-tine, 4-ft. handle. 2 25
 No. 06D. 6-tine, iron D-handle. 2 35

Ensilage or Barn Forks. Steel D-handle.

- No. 506. 6 15 1/2-in. tines. \$3 20
 No. 508. 8 16-in. tines. 3 45
 No. 510. 10 16-in. tines. 3 70



Doo-Klip Weeder

Use it to eradicate dandelions, plantains, and other small weeds in the lawn. Has 32-inch tubular steel handle. Operated from a standing position. \$1.50.

Garden Trowels



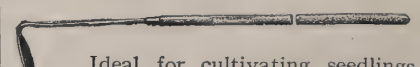
- No. DST. Forged from one solid piece of steel and tempered. \$1.
 No. SST. Straight shank \$1.
 No. 211. Forged steel. 5-in. 80 cts., 6-in. 85 cts., 7-in. 90 cts.
 No. 215. English Pattern. 6-in. 25 cts.



No. 217

- No. 217. Transplanting. 6-in. 25 cts., 7-in. 30 cts., 8-in. 35 cts.

The Handy Hoe



Ideal for cultivating seedlings and closely planted plants. Forged steel blade 3/4 in. wide and 4 in. long; length over-all, 4 ft. 65 cts.



Gem Garden Spade

A handy tool where careful cultivation is required. 60 cts.



Eureka Weeder

Very convenient tool for weeding and cultivating in the garden. 60 cts.

Triangular Steel Weeder



Used extensively for close garden-work among young, tender plants. No. 3W. 3-in. blade, 8-in. handle, 60 cts. No. 34W. 3-in. blade, 4-ft. handle, 85 cts.



True Temper Weeder

Made from special high-grade steel.

No. BWI. 75 cts.

Hazeltine Weeder. Same style as True Temper Weeder except lighter material. No. 200. 40 cts.

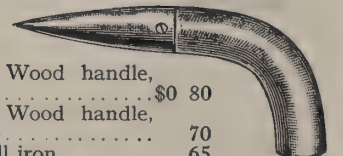


Norcross V-Point Weeder

No. 25N. Used also as an asparagus cutter. Length overall, 14 inches. 25 cts.

Dibbles

- No. 218. Wood handle, usual size. \$0 80
 No. 219. Wood handle, small size. 70
 No. 220. All iron. 65
 No. 226. Aluminum. 1 00





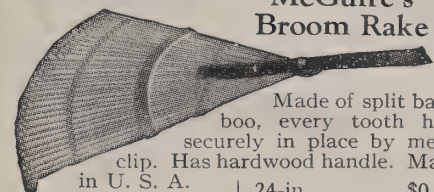
Steel Garden Rakes

Forged from one solid piece of steel; straight teeth; hammer-drawn, single shanks.

10 teeth.....\$1 00	16 teeth.....\$1 40
12 teeth.....1 15	18 teeth.....1 50
14 teeth.....1 25	

14-tooth Panther Level-Head Rake...	\$0 70
14-tooth Panther Bow Rake.....	90
14-tooth True Temper Bow Rake.....	1 50
24-tooth Wire Lawn Rake.....	1 00
20-tooth Wood Lawn Rake.....	75
10-tooth Wood Hay Rake.....	55
12-tooth Wood Hay Rake.....	65

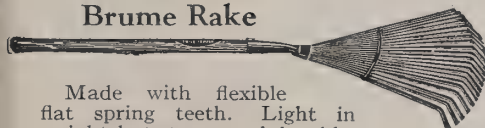
McGuire's Broom Rake



Made of split bamboo, every tooth held securely in place by metal clip. Has hardwood handle. Made in U. S. A.

18-in.....\$0 60	24-in.....\$0 90
	30-in.....1 50

Brume Rake



Made with flexible flat spring teeth. Light in weight but strong and durable.

No. FBR22. \$1.

The Lawncomb

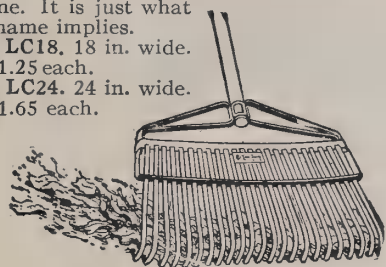
This rake has flat steel teeth and a steel frame. It is just what its name implies.

No. LC18. 18 in. wide.

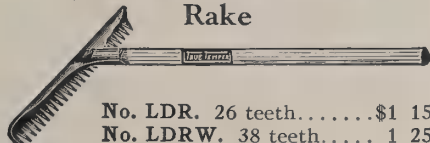
\$1.25 each.

No. LC24. 24 in. wide.

\$1.65 each.



Dandelion or Crab Grass Rake



No. LDR. 26 teeth.....\$1 15

No. LDRW. 38 teeth.....1 25

Turf Edger



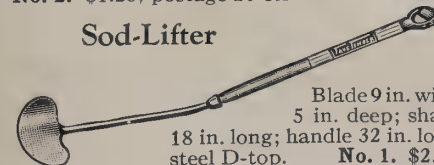
No. 040F. For trimming edges of walks and driveways. Flat top blade. 4-ft. handle, \$1.25.

Planet Jr. Grass Edger

Has sharp edge steel disc with 36-inch handle. Edges straight or curved walks quickly and easily.

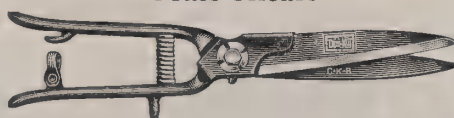
No. 2. \$1.25, postage 20 cts. extra.

Sod-Lifter



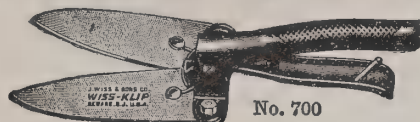
Blade 9 in. wide, 5 in. deep; shank 18 in. long; handle 32 in. long; steel D-top. No. 1. \$2.50.

Grass Shears



No. D019. Grass Shears. Polished bevels. Die-cast alloy handles. 50 cts.

No. 600. Wiss Quality Grass Shears. \$1.50.



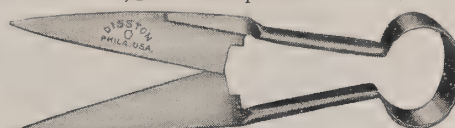
No. 700. Wiss Grass Shears. Operates with an easy up-and-down movement. \$1.25.

No. 701. Wiss Grass Shears. Has narrow blades for working in close places. \$1.25.

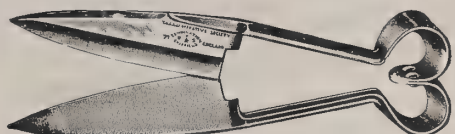
No. 800. Quick-Trim Grass Shears. A well-made Shear at a low price. 80 cts.

Grass and Sheep Shears

No. 2210. 5½-in. Full polished. 60 cts.



No. 1105. 6½-in. Finest quality cutlery steel; trowel shank. \$1.25.



No. 71. 6½-in. Best quality Sheffield steel English Shears. \$4.50.

True Temper Grass Hook



Cutlery steel blade, 11 in. long. Steel shank shaped to raise handle. 65 cts.

Hand-Made Grass Hook

Solid steel blade. Raised hardwood handle. 40 cts. Same in left-hand style, 50 cts.

Perfect Grass Hook

Solid steel blade. Genuine Cocobolo handle with brass rivets through tang. 75 cts.

English Grass Hook



Blade finest Sheffield steel riveted to heavy back. \$1.

German Blue Blade Grass Hook

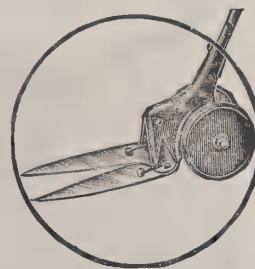
Thin blade of high-tempered steel. 75 cts.

Oakland Grass Hook

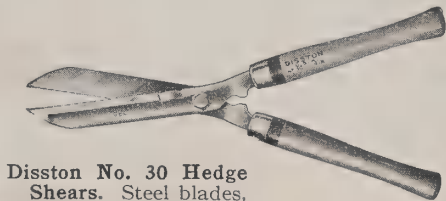
Blade of high-quality steel, 12 in. long. Handle 19 in. long. Ideal for terraces. 85 cts.

The Doo Klip Long-Handle Grass Shears

Particularly desirable for use under bushes or shrubs, it also works perfectly along walks, foundations, and all difficult places. Operated from a standing or erect position. Handle 33 inches long. \$2.50.

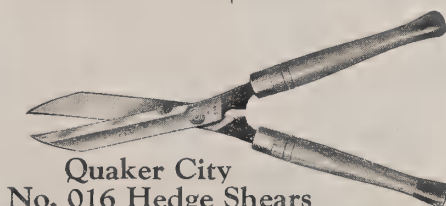


Disston No. 40 Hedge Shear. The blades are 1½ inches wide, hardened, tempered and hollow ground. Blade, shank and tang are one piece of forged steel. Hardwood handle fastened to the tongs with three solid brass rivets. 8-in. blade, \$2.40; 9-in. blade, \$2.60.



Disston No. 30 Hedge Shears. Steel blades, half-oval, hollow-ground, full polished, hardened and tempered; hardwood handles; tangs extend entire length of handle. Tension device eliminates spring.

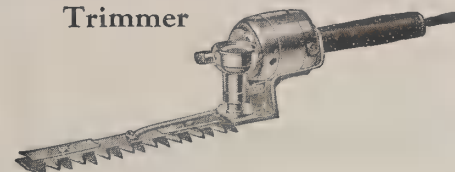
6-in. blade..\$1 75 | 9-in. blade...\$2 70
8-in. blade..2 50 | 10-in. blade...2 90



Quaker City No. 016 Hedge Shears

High-carbon tool steel blades. Tang driven into hardwood handle, reinforced by iron ferrule. Very satisfactory Hedge Shears at a moderate price. 8-in. blade, 90 cts. Postage 15 cts. extra.

Roberton-Dumore Electric Hedge Trimmer



A very satisfactory Electric Hedge Trimmer at a price that anyone can afford. It pays back its cost each season through saving in time and labor. The Dumore is light in weight, well balanced, and adapts itself to any type of hedge-trimming. Specially designed blades provide clean, smooth cutting. High-speed power is supplied by the light but dependable Dumore motor. Length over all, 18½ inches; cutting width, 9 inches. Weight, 3¾ pounds. Price \$29.50.

Masters "Handi-Cart"



Handy to use, light and strong, the Handi-Cart is the perfect answer to your garden hauling problems. Just tip it down and rake grass, leaves, rubbish, earth, sand etc., right into the cart. Easily emptied by tipping forward. Will give many years of satisfactory service.

No. 1. Capacity 2 cu. ft. \$4 75
No. 2. Capacity 3 cu. ft. 6 75

Shovels

No. FR. Fox Round Point. D-handle. \$1 75
No. FLR. Fox Round Point. Long handle. 1 75
No. FS. Fox Square Point. D-handle. 1 75
No. FLS. Fox Square Point. Long handle. 1 75
No. BE72. Star Coal Shovel. D-handle. 1 85
No. BE73. Star Coal Shovel. D-handle. 1 95
No. CXLO Garden Shovel. Round point blade 8 1/4 x 10 in.; handle 39 in. \$1.25.
No. CSL Garden Shovel. Round point blade 5 3/4 x 8 in.; handle 40 in. \$1.10.



No. AFSD. Automobile Spade. Forged steel blade 5 x 8 in. Length overall, 24 in. 90 cts.

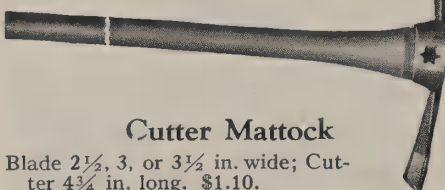
No. FSD. Floral Shovel. Similar to above. Length overall, 38 in. \$1.



Champion Wire Scoop. The lightest and strongest Potato Scoop made. Specially recommended for the handling of corn, potatoes, and vegetables. Blade 13 in. x 16 in. Steel D-handle, wood grip. \$2.50.

Little Digger Garden Mattock

Made of forged steel. Light in weight but sturdily built. Double-blade style, as illustrated, or Blade and Cutter style, each \$1.25.



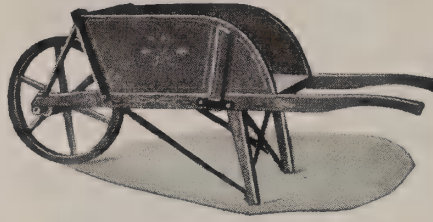
Cutter Mattock

Blade 2 1/2, 3, or 3 1/2 in. wide; Cutter 4 3/4 in. long. \$1.10.

Blade 3, 3 1/2, or 4 in. wide; Cutter 5 1/4 in. long. \$1.20.

Railroad Picks. 2 in. wide chisel end, weight 5 lbs., 90 cts. 2 in. wide chisel end, weight 6 lbs., \$1.

Pittsburgh Garden Barrows



These Barrows are made of thoroughly seasoned wood, have double frames, firmly bolted together and iron braced. They are neatly finished and very strong.

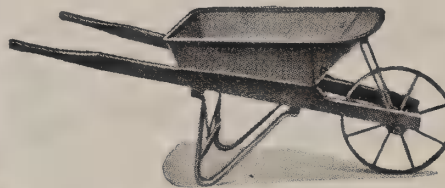
No. 1. Large. Body, 30 x 24 in.; sideboards, 12 x 30 in.; wood wheel, 1 3/4 x 22 in. Weight, 65 lbs. Price \$9.25.

No. 2. Medium. Body, 28 x 20 in.; sideboards, 12 x 27 in.; wood wheel, 1 3/4 x 20 in. Weight, 50 lbs. Price \$8.

Extra for 2 3/4-in. Tire Wheel. \$0 50
Extra for 5-in. Tire Steel Wheel. 1 60
Extra for 16x4-in. Pneumatic Rubber

Tire Wheel. 6 00
No. 5. A high-grade Barrow at a low price. Body, 26 in. long, 19 in. wide front, 23 in. wide rear; sideboards, 12 in. high. Steel wheel. Weight, 50 lbs. Price \$6.40.

Steel Tray Barrows



No. 20. Home Barrow. An exceptional Barrow for light work and general use around the home and garden. Tray of one-piece steel. Channel steel legs. Capacity, 3 cu. ft. Weight, 40 lbs. Price, with 15 1/2-in. diam. steel wheel \$4.40; with 16 x 2-in. pneumatic rubber tire wheel \$7



No. 15A. Adapted to cement or construction work or hauling manure. Designed with round front tray, so that materials will dump and clean easily. Hardwood handles, steel tray, and steel legs. Steel wheel, 15 1/2 in. diam. A substantial Barrow that will stand a lot of hard usage. Weight, 65 lbs. Capacity, 3 1/2 cu. ft. Price \$7.85.

No. 154. Same design as No. 15A. Weight, 70 lbs. Capacity, 4 cu. ft. Price \$8.40.

No. 155. Same design as No. 15A. Weight, 75 lbs. Capacity, 5 cu. ft. Price \$9.65.

Extra for 16x4-in. Pneumatic Rubber Tire Wheel on No. 15A, No. 154, or No. 155. \$6 00

Sieves

Constructed from the best steel wire cloth. Wood sides, 16 inches diameter, 3 1/2 inches inside depth, well braced. Can be used for screening soil and also for cleaning grain.

No. 4. 1/4-in. mesh; No. 6. 1/8-in. mesh; No. 8. 1/16-in. mesh. \$1 each.

Scythes and Snaths



True Temper "World's Finest" Grass Scythe. With wide Dutch heel. Briar edge. 28 and 30-in. \$2.

English Riveted Back Scythe. 30 to 34-in. \$3.

Genuine Austrian Schwanen Sense Scythe. Straw-tempered finish with picture of two swans on blade. \$2.85.

Little Giant Grain Scythe. 48-in. \$2.25.



Weed Scythe, Heavy Pattern. 26 to 28-in. \$2.



Bush Scythe, Heavy Pattern. 18 to 22-in. \$2.

Sharpening Outfit for German and Austrian Scythes. Consists of Hammer (without handle) and Anvil. Weight, 1 lb. \$1.25. Postage 10 cts. extra.

Patent Grass Snath No. 25. With loop bolt and nut. \$1.50.

Bush Snath No. 125. With loop bolt and nut. \$1.75.

Straight Snath, S3. For German and Austrian Scythes with ring and wooden wedges. \$1.35.

True Temper Long-Handle Grass

Hook. A useful tool for parks, cemeteries, golf grounds, etc. Blade 12 in. long; handle 44 in. long. (Not illustrated.) \$1. Postage 10 cts. extra.

Nowatoco Scythhook. For cutting light bushes, weeds, and grass. Blade 18 in. long; handle 4 1/2 ft. long. \$1.50. Postage 10 cts. extra.

True Temper Grass Cutter. Double serrated-edge blade. 9 in. long; length overall 38 in. No. 29. \$1.

Little Giant Bush Hook. Crucible steel blade, double cutting edge; 30-in. hickory handle. \$2.50.

Blood's Bush Hook. Forged blade, one cutting edge; 36-in. hardwood handle. \$2.25.



Kelly Axes

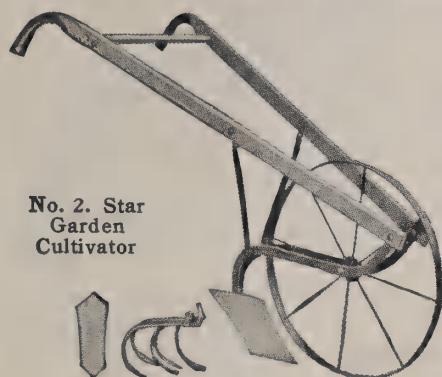


Forged, with crucible steel bit welded upon a mild steel body. Scientifically patterned; bursts the chips easily. Does not bind in the wood. 36-in. extra-quality hickory handle.

Single Bit, 3 1/2 or 4-lb., \$2.35; 4 1/2 or 5-lb., \$2.50; 5 1/2-lb., \$2.60.

Double Bit, 3 1/2 or 4-lb., \$2.80; 4 1/2 or 5-lb., \$2.90; 5 1/2-lb., \$3.

Star Garden Cultivator



No. 2. Star
Garden
Cultivator

A very satisfactory Cultivator, Weeder and Mulcher for the home-garden. The frame is made of stiff steel. The long handles give ample foot-space behind the tool and can be raised or lowered to suit the operator's height. The 24-inch wheel has a convex rim which greatly adds to its strength.

The 5-prong Attachment is available separate from the plow and can be used on other of the same general type of garden plows. It cultivates the soil properly and gives the weeds no chance to sprout.

No. 2 Star. With Double-point Blade, Moldboard, and 5-prong Attachment. \$3.50.

5-prong Attachment alone 75 cts., postpaid 85 cts.

Spike Disc Lawn and Greens Cultivator

For Soil Aeration and Retention of Seed and Moisture in Turf



Lawns, putting-greens and fairways, parks, etc., require cultivation if their condition is to be maintained and improved. This can be done at moderate expense with the Spike Disc Cultivator. The high carbon alloy steel saw teeth cultivate and aerate in one operation, eliminating hard baked surfaces and forming a mulch so necessary for the retention of moisture. The Spike Disc Cultivator should be used frequently.

No. 30. Rolling width, 18 inches. Has 19 discs, each 10 in. diameter. \$30 00

No. 32. Same as No. 30 but with two handles for two-man operation. 33 00

No. 22. For home lawns. Rolling width, 10 inches. Has 11 discs, each 10 in. diameter. 16 50

No. 25. Rolling width, 14 inches. Has 15 10-in.-diam. discs. 21 50

Dunham Water-Weight Lawn Roller

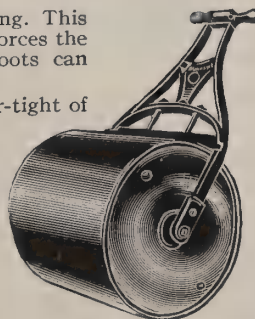
Lawns should be rolled in the early spring. This compresses the soil around the roots and forces the turf back against the subsoil, so the roots can absorb moisture and plant-food.

The drum of the Dunham is made water-tight of heavy steel plates.

Weight is easily increased by addition of water or sand. Has rounded edges that will not mar turf and adjustable scraper. Bronze plug prevents rusting.

Nos. 5, 7, and 9 have roller bearings and handle brace as shown in cut.

Nos. 100, 2, 4, and 6 have plain bearings without arched brace between handles.



	Diameter	Width	Weight empty	Weight filled with water	Price
No. 100.	12½ in.	18 in.	29 lbs.	100 lbs.	\$5 00
No. 2.	14 in.	24 in.	60 lbs.	175 lbs.	10 00
No. 4.	18 in.	24 in.	82 lbs.	265 lbs.	11 75
No. 6.	24 in.	24 in.	105 lbs.	400 lbs.	15 75
No. 5.	18 in.	24 in.	85 lbs.	265 lbs.	14 50
No. 7.	24 in.	24 in.	110 lbs.	420 lbs.	18 25
No. 9.	24 in.	32 in.	130 lbs.	565 lbs.	21 00

Prices on Horse- and Tractor-drawn Rollers, also Fairway Rollers, quoted on request

Whirlwind Power Lawn Mower



Whirlwind Mowers keep the finest lawns in perfect condition. They will also cut high grass and weeds and trim right up to trees, fences, etc. Whirlwind suction stands smothering growths straight up for clean cutting. No dandelions and stemmy weeds are left to mar the appearance of a freshly cut lawn. Whirlwinds cut on both forward and backward travel. Once over with a Whirlwind is all that is necessary. Because of the patented Whirlwind scythe-action suction principle, the grass is cut into unusually fine clippings, making a mulch of great fertilizing value. After cutting with a Whirlwind there is no need for raking. Upkeep cost is very low because of the high quality of materials used in construction and due to the simplicity of design.

Model EZ. Has 1½ H. P. motor, 18-in. cut. \$200 00

Model SP. Has 2½ H. P. motor, 24-in. cut. 315 00

Grassking Model. Has 3 H. P. motor, 31-in. cut. 370 00

Ask for Descriptive Catalogue

Springfield Lawn Sweeper



28-in.
Model AD

The Springfield Lawn Sweeper beautifies the lawn by giving it new life. It gently lifts and collects paper, leaves, sticks, stones, and fresh-cut or dead grass without harm to the growing grass. It lifts low-growing crab grass and other spreading weeds, so the lawn mower can cut off the seed-pods before they ripen. Removes quantities of foul weed seeds that would otherwise germinate in your lawn.

For golf greens, it gently removes worm-casts, ant-hills, and debris of all light character, which interfere with the life, beauty, and utility of the green. May also be used for brushing in top-dressing. It operates with a soft, easy, whirling, sweeping movement which cannot injure the turf.

22-in. Junior Model

Diameter of brush 9 inches, with 4 individual brushes. Adjustable for close or light sweeping. Hopper removable for emptying. Price, with semi-pneumatic rubber tires, \$31.50.

28-in. Model AD

Diameter of brush 12 inches, with 6 individual brushes. Hopper can be emptied either by tipping forward or removing from frame. Price, with semi-pneumatic tires, \$46.

36-in. Power Lawn Sweeper

Equipped with 1 H. P. Briggs & Stratton motor. Price, with semi-pneumatic tires, \$160.

Boston Garden Hose

Bull Dog Cord Hose. A super-strong, super-flexible Hose—the finest Lawn Hose made. Meets the requirements of golf courses, large estates, parks, greenhouses, etc. Brown corrugated cover. Double-braided, high-quality, cotton-cord carcass. A strong, flexible Hose that will give years of service. Furnished in $\frac{5}{8}$ -, $\frac{3}{4}$ - and 1-inch sizes.

$\frac{5}{8}$ -in. diam., 25-ft. length, \$4.40; 50-ft. length, \$8.40. Coupled.

Furnished in continuous lengths, $\frac{5}{8}$ -in. diam., 16 cts. per ft.; $\frac{3}{4}$ -in., 18 cts. per ft.; 1-in., 27 cts. per ft.



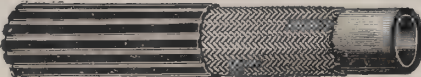
Vigilant Garden Hose. The most popular two-ply Garden Hose made. Heavy moulded construction throughout. Will stand lots of use and give years of service. Green corrugated cover.

$\frac{5}{8}$ -in. diam., 25-ft. length, \$3.50; 50-ft. length, \$6.60. Coupled.



Vixen Garden Hose. An ideal Hose for the average home-garden or lawn. Heavy single-ply construction. From the standpoint of service it is fully equal to many of the lighter grades of two-ply Hose. Red corrugated cover.

$\frac{5}{8}$ -in. diam., 25-ft. length, \$2.90; 50-ft. length, \$5.40. Coupled.



Tiger Garden Hose. For those who want quality at a low price. Has brown corrugated cover and heavy, single-braided cotton-cord carcass.

$\frac{5}{8}$ -in. diam., 25-ft. length, \$1.85; 50-ft. length, \$3.45. Coupled.

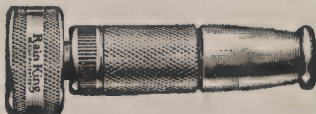
Boston Spray Hose

Made specially for spraying purposes.

Non-Kink. Best quality 3-braid construction. Will stand 600 pounds working pressure. Any desired length. $\frac{1}{2}$ -in. diam., 32 cts. per ft.

Milo. Two-braid construction. Will stand 200 pounds working pressure. $\frac{1}{2}$ -in. diam., 15 cts. per ft.

Vigo. Single-braid construction. For 100 pounds working pressure. $\frac{3}{8}$ -in. diam., 11 cts. per ft.

Rain King Nozzle

Made of solid brass, chrome plated. Precision tooled for greater accuracy. Will not stick or leak. No. N1. 65 cts. each, postage 10 cts. extra.

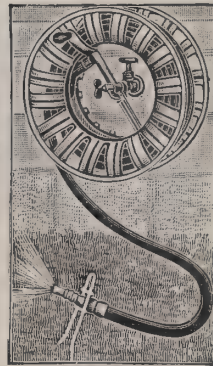
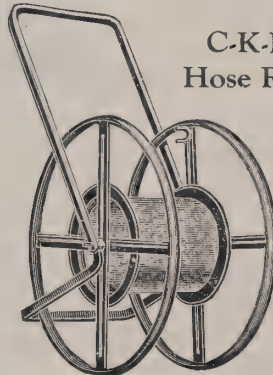
Allen Flat Spray

Especially adapted for sprinkling flowers, seed-beds, and new-made grass-plots. Made of brass and nickel plated.

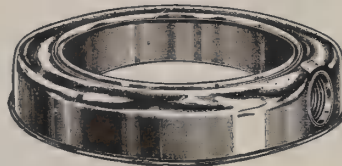
No. 7001. Price 60 cts., postage 10 cts. extra.

**Detachable Hose Reel**

A most convenient and practical device. The axle of the Reel fits into a special faucet which is permanently attached to the water-pipe. The Reel revolves on the faucet, allowing the hose to be pulled out as desired. When the sprinkling is finished, the hose can be reeled up readily without any handling. Diameter, 20 inches; width, 8 $\frac{1}{2}$ inches; will hold 100 feet of $\frac{5}{8}$ -inch hose. Price, including faucet, \$4.75.

**C-K-R
Hose Reel**

Substantially built of the best materials. Wheel 21 inches in diameter with oval steel tire rims. Finished in enamel. Capacity 100 feet of $\frac{3}{4}$ -inch hose. No. 180. \$2.50.

**Ring Lawn Sprinkler**

Throws a beautiful mist-like spray up to 30 feet in diameter. Made entirely of heavy brass.

No. 7016. Price \$1, postage 10 cts. extra.

Half-Circle Sprinkler

Same as Ring Lawn Sprinkler, but throws the water in a half-circle. No. 261. Price 80 cts., postage 10 cts. extra.

Greenhouse Sprays

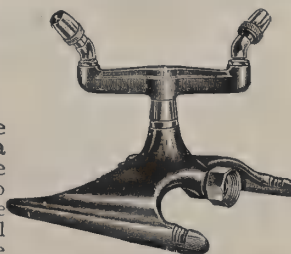
Used principally for watering in the greenhouse and hotbeds.

No. 268. Made of cast brass. Equipped with one fine and one coarse plate. Diameter of face 4 inches. \$2.50.

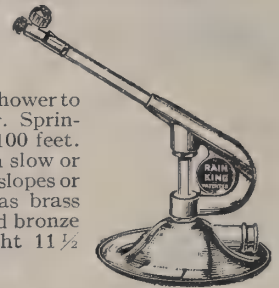
No. 3604. Stamped from heavy sheet brass. Diameter of face 4 inches. 60 cts., postage 10 cts. extra.

**Parkside
Lawn
Sprinkler**

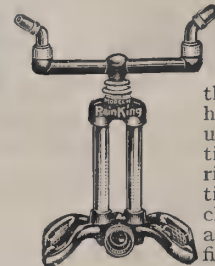
Nozzles can be adjusted for a fine mist or coarse stream, and to cover a large circle or small area. Will operate on high or low pressure. No. 7003. \$3.

**Model G Rain King Sprinkler**

An entirely new type home Lawn Sprinkler that throws every known kind of spray from misty shower to soaking downpour. Sprinkles circles 12 to 100 feet. Can be set to turn slow or fast; can't stall on slopes or in high winds. Has brass arm and nozzle and bronze bearings. Height 11 $\frac{1}{2}$ inches. \$3.95.

**Model H Rain
King Sprinkler**

A substantial Sprinkler that is very popular with home-owners. Can be used as whirling or stationary Sprinkler. Uprights, nozzles, and fittings made of solid brass, chromium plated. Can be adjusted from coarse to fine spray. \$3.75.

**Model D Rain King Sprinkler**

Similar to Model H in design. Uprights, arms and nozzles are polished brass. Patented nozzles are easily adjusted for any desired spray. \$2.85.

**Autowave Oscillating Lawn
Sprinkler**

A new and entirely different type of Sprinkler for rectangular areas. A slight adjustment of the nozzles adapts it for sprinkling strips from 5 to 37 feet wide by 45 feet long. Sturdily constructed. \$3.50.

**Soil-Soaker**

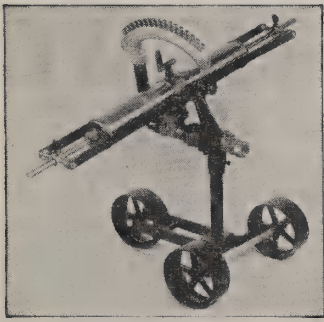
Soaks Soil Thoroughly



Made of porous canvas; screws to the water hose, replacing nozzle and sprinkler. The water seeps through the Soil-Soaker surface in drops and gently rolls to the ground without the slightest washing. Enables you to put the water exactly where you want it. Easily moved.

No. 0. 12 ft. long. \$1 25
No. 1. 18 ft. long. 1 75
No. 2. 30 ft. long. 2 75
No. 3. 50 ft. long. 4 50

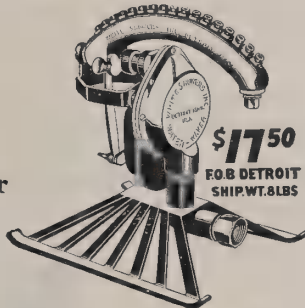
Pep up your lawn. Use Scott's Lawn-Gro Fertilizer. See page 1



White Showers Rainbow Sprinkler

So designed that it sprinkles in a square instead of circle. The Rainbow has 17 nozzles, mounted on an oscillator and waters an area as large as 50 feet square, but it can quickly be adjusted for smaller areas and also for narrow strips and borders. Discharges 6 gallons per minute. Weight 25 lbs. \$40.

Water-Waver Sprinkler

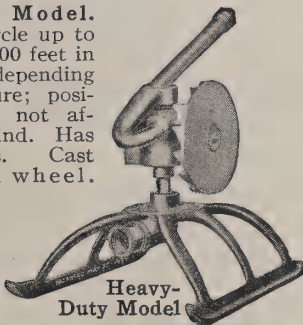


A portable, oscillating lawn and garden sprinkler. Covers an area 50 by 50 feet at full pressure. Smaller areas controlled by changing water pressure at faucet. Compact, light weight, efficient, and sturdily built of the best materials. Discharges 5 gallons per minute. \$17.50.

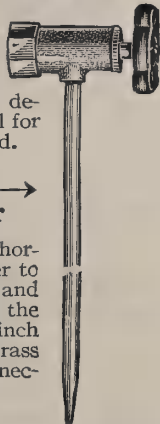
Double Rotary Sprinklers

Heavy-Duty Model.

Covers a circle up to more than 100 feet in diameter, depending upon pressure; positive action, not affected by wind. Has two nozzles. Cast aluminum wheel. Bronze, brass and steel gears running in a bath of oil. Ideal for golf clubs, parks, schools, etc. \$12.50, postpaid.



Junior Model. Single-nozzle type. Covers a circle up to 75 feet in diameter, depending on pressure. Ideal for home use. \$7.50, postpaid.

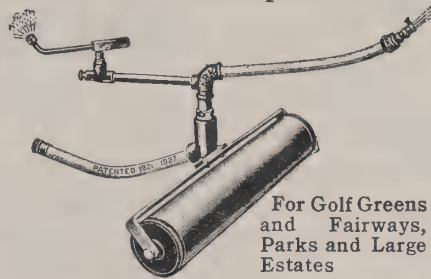


Allen Sub-Irrigator

A quick, efficient, and thorough method of forcing water to a sufficient depth to saturate and soften the ground around the roots of plants. Made of 1/2-inch tubing, 36 inches long. Has brass shut-off and swivel hose connection.

No. 7023. \$1.90.

The "Lark" Sprinkler



For Golf Greens and Fairways, Parks and Large Estates

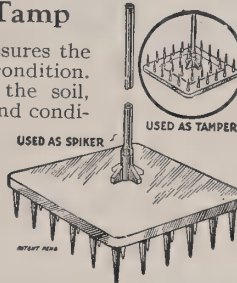
The "Lark" sprinkles evenly a circular area from 60 to 150 feet in diameter, depending upon pressure and size of nozzle used. The far-throwing main stream revolves slowly and may be broken into coarse or fine drops as desired. The whirling Rotor gives even distribution in the center. Length of roller base, 18 inches. Two nozzles furnished with each Sprinkler. Fitted with 1-inch and 3/4-inch hose connection. \$12.

Sykes Hose Holder

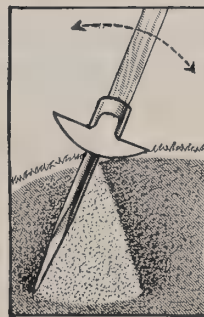
Makes a lawn sprinkler with your hose nozzle. Made of heavy wire. 40 cts. each.

Spike Lawn Tamp

Spiking a lawn assures the maintenance of its condition. It admits air into the soil, loosens the root-bound condition of the grass and permits water to enter the soil. Plate 9 in. square, spikes 1 1/4 in. long, weight 11 1/2 lbs. Perpetually guaranteed against breakage. \$4.50.



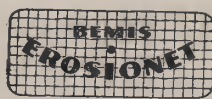
Sod Spiker



A strong, sturdy, and practical tool for aerating the lawn. The rounded base permits rocking the handle back and forth, cultivating and loosening the ground under the grass without tearing or defacing the top surface of the lawn. This is the only way the soil beneath the lawn can be properly prepared to receive needed fertilizers, water, etc. Has 4 prongs; handle 36 in. long. \$1.75 each.

Bemis Erosionet

For New Lawns and Stubborn Terraces



When placed over any seeded surface, its 1/4-inch square mesh forms millions of tiny dams which catch and hold the seed and soil firmly in place. Thus, damaging "washouts" from heavy rains are effectively checked without cutting off the sunlight.

Erosionet never presents an unsightly appearance, clover and grasses soon rendering it almost invisible. It is rot-resisting and can easily be removed when grass becomes 2 1/2 inches high. 45 inches wide. Sample on request. 10 cts. per lineal yard.

Bemis Erosionet is a strong, economical, open-mesh fabric made of tightly twisted paper twine.

ELLISCO

Japanese Beetle Traps

The most efficient means of destroying full-grown Japanese beetles. The bait in the trap attracts the beetles to the trap; the beetles pass through the trap into the jar, where they can be destroyed easily.

No. 4 Trap. \$1.10 each, \$6.25 for 6, \$12 per doz.

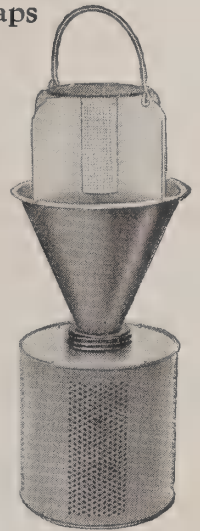
No. 0 Trap. Smaller than No. 4. 50 cts. each, \$2.70 for 6, \$4.80 per doz.

Traps fitted with standard thread to fit any Mason jar. Price of traps does not include jars, cages, stands, or bait.

Ellisco Granular Bait. 1-oz. can 15 cts., 4-oz. can 35 cts., 1-lb. can \$1, 5-lb. can \$4.

Perforated Cages. 2-qt. capacity, used in place of Mason jars. 45 cts. each, \$2.35 for 6, \$4.20 per doz.

Stands. Galvanized steel rod to support trap. 30 cts. each.



No. 4 Trap with Perforated Cage

Lon-Groom Lawn Edger

Strong spoked wheel holds sod and grass in place while the sharp tempered steel blade cuts a clean straight edge. Length of handle, 51 inches.

No. 88. Wood handle, \$2.

No. 90. Steel handle, \$2.50.



Tri-Con Triple Duty Lawn Fertilizing Nozzle

The Tri-Con positively eliminates all guesswork in applying fertilizer to your lawn. It is carefully calibrated to deliver the correct amount of fertilizer without danger of burning.



With jar removed and the reversible cap attached, the Tri-Con is converted into a trigger-controlled hose nozzle or a stationary Lawn Sprinkler.

No. 500. For applying Sulphate of Ammonia, Nitrate of Soda, and other water-soluble fertilizers. \$3.75.

No. 1000. For applying commercial fertilizers. \$3.75.

Good Luck Hose Washers

Made of best grade rubber. For 1/2-in., 5/8-in., and 3/4-in. hose. Pkg. of 12, 10 cts.

The Mower of Tomorrow Can Be Yours Today

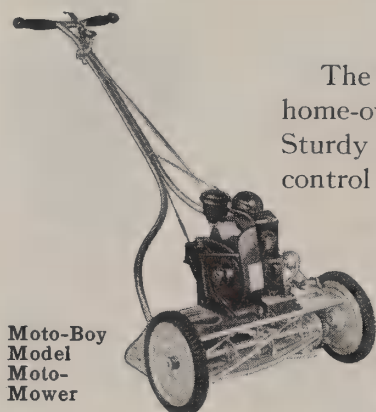
MOTO-MOWER

The Moto-Mower has been recognized as the leader in the field of Power Lawn-Mowers for many years. They are designed and built to give satisfactory service and are used and recommended by careful buyers everywhere.

All Moto-Mowers are powered with Briggs & Stratton engines. These motors are universally recognized as tops in air-cooled gasoline engines. With 23 years' experience selling Moto-Mowers we enthusiastically recommend them.

Moto-Boy Model Moto-Mower

The Moto-Boy is a reliable and well-designed Power Mower built to fill the needs of home-owners with smaller lawns and for places where a larger Mower is not required. Sturdy malleable and steel construction; V-belt and chain-drive; throttle and clutch control from handle-bar; $\frac{1}{2}$ -H.P. engine; 5 crucible steel blades; ball-bearings; tubular steel handles; semi-pneumatic tires. Attractively finished in chrome with red striping. 18-in. cut. \$92.

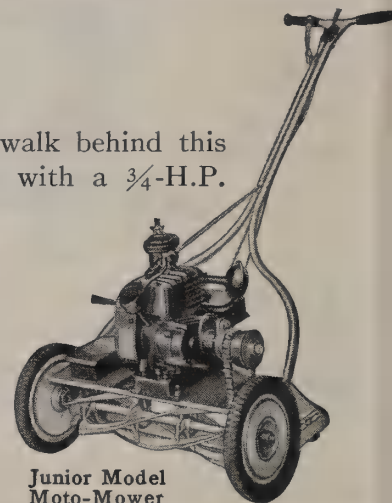


Moto-Boy
Model
Moto-
Mower

Junior Model Moto-Mower

You'll never return to hand-mowing once you walk behind this new 1941 Junior Model Moto-Mower. Powered with a $\frac{3}{4}$ -H.P.

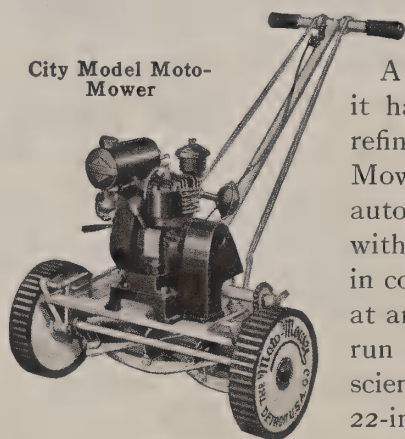
engine with 6 to 1 built-in reduction gear running in oil the same as the motors on the Commander and Fleetway Models. Sturdy malleable and steel construction; cone clutch and chain drive; throttle and clutch control from handle bar; 5 crucible steel blades; ball-bearings; tubular steel handles; semi-pneumatic tires. Painted opalescent blue and gold. 20-in. cut. \$129.



Junior Model
Moto-Mower

City Model Moto-Mower

A great Mower with an enviable reputation which it has enjoyed for many years, now improved and refined for 1941. It is a heavy-duty type of Power Mower for lawns of 2 to 3 acres, and possesses "Twist-of-the-Wrist" guiding, automatic engine control, and the finest of construction and materials. Powered with $1\frac{1}{4}$ -H.P. engine. Automatic speed-control, which the City Model possesses in common with all the other Moto-Mowers, enables the operator to set the engine at any speed he desires, and, by means of an automatic governor, the machine will run at that speed through all grades and thicknesses of grass, assuring an even, scientific cut with least exertion to the operator. 22-in. cut. Price, with slip-on rubber tires, \$190.

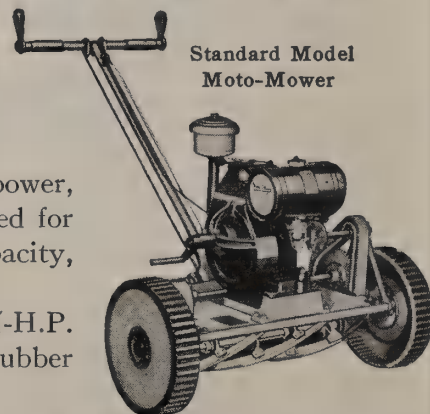


City Model Moto-
Mower

Standard Model Moto-Mower

Every inch a Moto-Mower, which means rugged construction, ample power, ease of operation, and "twist-of-the-wrist" guiding. Particularly well adapted for cemetery use and will give a good account of itself on any lawn. Cutting capacity, 4 to 5 acres per day.

Is the same construction as the Super-Detroit and is powered with a $1\frac{3}{4}$ -H.P. engine. Width of cut 24 inches. Price, with pressed steel wheels and slip-on rubber tires, \$267.50. Sickle-bar available for this model.



Standard Model
Moto-Mower

Ask for Catalogue Fully Describing All Models, or Demonstration Gladly Arranged

Power Lawn-Mowers

*The Test of Time Proves
Moto-Mower Leadership*

Super-Detroit Model
With Sickle-Bar



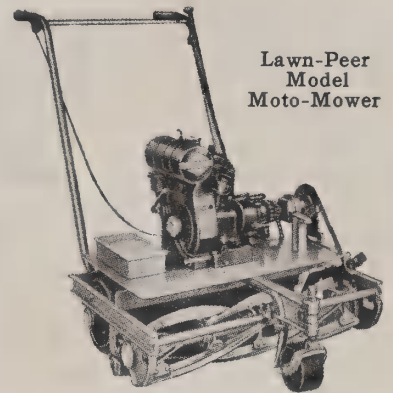
The Super-Detroit Moto-Mower

Possessing such sturdy construction and perfect balance, the Super-Detroit cuts every kind of grass efficiently and with least exertion to the operator. Strong and powerful though it is, "twist-of-the-wrist" guiding makes the Super-Detroit as responsive to the touch as a light Hand Mower. Consequently, the operator can now mow 6 to 7 acres per day with it every day of the season without experiencing fatigue. Recommended for country estates, parks, cemeteries and large lawns. The Super-Detroit outsells any other power mower in the same price class. Equipped with a 3-H.P. 4-cycle engine. Width of cut, 30 inches. Price, with slip-on rubber tires, \$330. Can be equipped with Sulky, Trailer Cutting Units, and Sickle-bar.

Lawn-Peer Model Moto-Mower

For those who prefer a roller type of Mower, Moto-Mower offers the Lawn-Peer Model. It is fitted with a 3-section roller, each section 8 inches in diameter with studded tread. The Lawn-Peer has all the desirable features such as a disc clutch, safety clutch, throw-out reel, selective automatic speed control, air-cooled engine with built-in reduction gear, etc. The reel is 6 inches in diameter, with five crucible steel blades. It has proved to be a highly satisfactory Roller Mower. This Mower can cut within 2 inches of an object. 26-in. cut, \$275.

Lawn-Peer
Model
Moto-Mower



Commander Model Moto-Mower

The supremacy of the wheel type of Mower over that of the roller type is self-evident when the traction wheels are rearward of and within the cutting width of the Mower, making it possible to cut much closer to an object than with the usual type of Wheel Mower, and to extend the cutting unit over the edge of the lawn when trimming along driveways or raised borders.

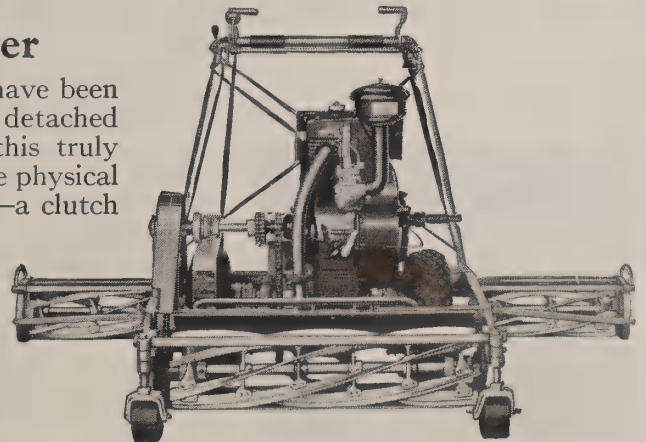
The Commander is powered with 2 1/4-H.P. engine with internal 6 to 1 reduction gear and has two multiple-disc traction clutches, reel clutch and safety clutch. 30-in. cut, \$370. Commander Triplex Model with 3 1/2-H.P. engine and power-driven side units, 71-in. cut, \$590.

Fleetway Triplex Model Moto-Mower

The Fleetway Triplex, with *power-driven* side units that have been adapted in a manner which permits their being attached or detached readily, has further increased the service possibilities of this truly remarkable Mower. The Fleetway Triplex requires very little physical effort to operate due to "twist-of-the-wrist" power turning—a clutch on each wheel.

Each side unit has a 22 1/2-inch cutting width. These units have no carrying wheels or casters extending beyond or in front of the cutting. This makes it possible to cut within 2 inches of obstructions. The units may be extended over the edge of raised borders or along driveways, and also enables cutting under overhanging shrubbery. The Fleetway Triplex eliminates practically all hand-trimming. Not a single part of the Mower travels on uncut grass. 73-in. cut, \$685. Without side-cutting units, 32-in. cut, \$410.

This Mower can be equipped with Snow Plow, Rotary Brush, Sprayer, Sickle-Bar, and Roller.



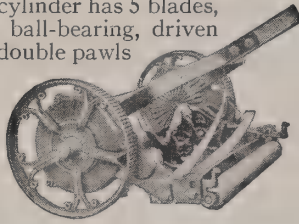
We Carry Repair Parts and Service Moto-Mowers

Pennsylvania Junior Lawn-Mower

This is the standard Mower for general trimming, and probably is used on more private estates, parks, cemeteries, and golf-courses than any other Mower. The cylinder has 5 blades, 6 inches in diameter; is self-aligning, ball-bearing, driven by a train of 3 gears on both sides; double pawls to prevent slipping. It will cut the toughest grass and give a smooth finish.

	Weight	Price
15-inch.....	41 lbs.	\$22 75
17-inch.....	43 lbs.	24 95
19-inch.....	45 lbs.	26 85
21-inch.....	48 lbs.	28 75

With rubber tires, \$1.75 extra.

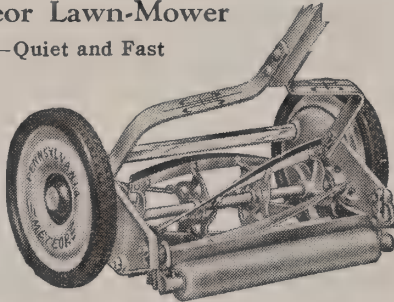


Pennsylvania Meteor Lawn-Mower

Built of Aluminum—Quiet and Fast

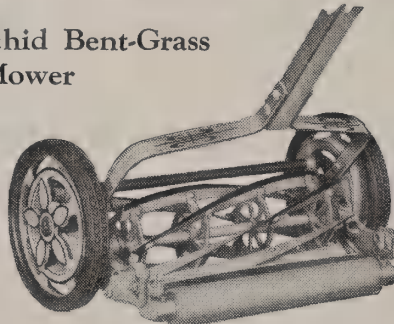
Brand new and the last word in Lawn-Mowers. Light weight, pushes easily, and precision built throughout. Five high carbon steel blades running in improved ball-bearings with accurate eccentric screw adjustment to take up when worn. Lower blade has raised cutting edge. All bearings are packed with grease. Equipped with rubber tires.

16-inch.....	35 lbs.	\$19 95	19-inch.....	38 lbs.	\$21 95
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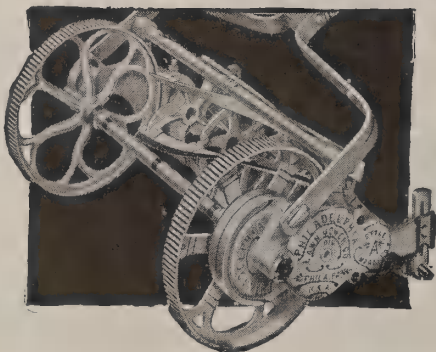
Pennsylvania Orchid Bent-Grass Lawn-Mower

Built especially for cutting creeping bent grasses. Has 10-inch wheels and seven crucible tool steel blades. Lower blade has a raised cutting edge. The ball-bearings are well protected from dust and dampness and are automatically kept in adjustment by a spring. 17-in., 43 lbs., \$16.95; with rubber tires, \$18.70.



Catalogue and Price-List of Pennsylvania Fairway Mowers and Greens Mowers on request

Style A "PHILADELPHIA" Lawn-Mower

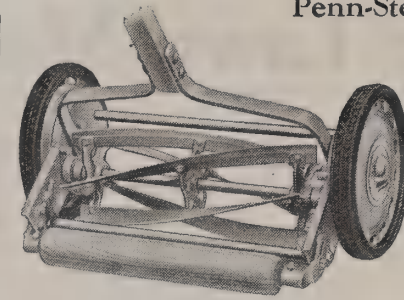


This Mower is especially designed for use on large lawns and meets the most exacting demands. Being all-steel construction it is practically indestructible. It is so constructed that the revolving cutter can be removed for sharpening without disturbing any of the parts. Has four blades, 10-inch wheel, 6 5/8-inch cylinder, train of three gears and double ratchet.

15-inch.....	50 lbs.	\$22 75	19-inch.....	53 lbs.	\$26 85
17-inch.....	52 lbs.	24 95	21-inch.....	54 lbs.	28 75

Penn-Steel Lawn-Mower

Meets the demand for a dependable light-weight Mower at a popular price. Has unbreakable steel frame, 5 high carbon steel blades, adjustable ball bearings, one-piece lower blade with raised edge, 10-inch wheels and fitted with rubber tires. Roller brackets adjustable for varying heights of cut



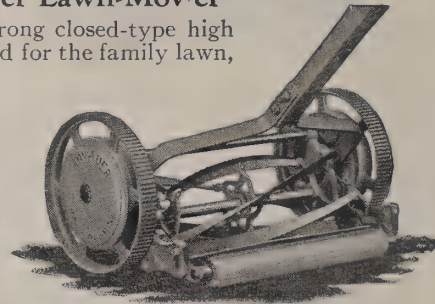
from 1/2 to 2 1/2 inches, with suitable adjustment for handle. 16-in., 40 lbs., \$9.95; 18-in., 42 lbs., \$10.95.

Pennsylvania Invader Lawn-Mower

This Mower, with its strong closed-type high wheels, is especially adapted for the family lawn, being well made, light running, and smooth cutting. Has 10-inch solid wheels, five hardened steel blades, and self-adjusting ball-bearings.

14-inch...	32 lbs.	\$7 85
16-inch...	34 lbs.	8 25
18-inch...	36 lbs.	8 50

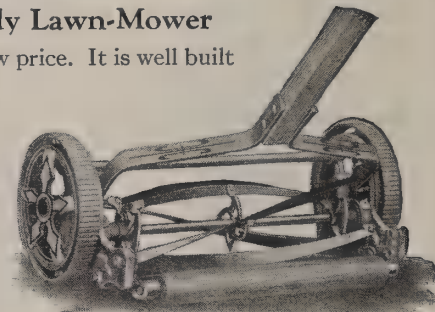
Rubber tires, extra, \$1 per pair.



Pennsylvania Sturdy Lawn-Mower

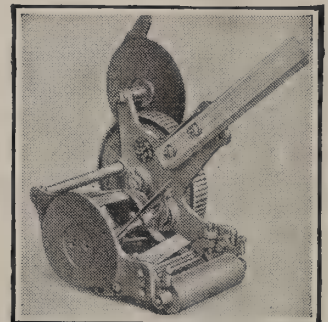
A quality Mower at a low price. It is well built and all parts are accurately fitted; pushes easily and cuts cleanly, leaving a nice, smooth finish to the lawn. Has 8-inch wheels, four hardened steel blades, and self-adjusting ball-bearings.

12-inch...	30 lbs.	\$6 50
14-inch...	31 lbs.	6 70
16-inch...	32 lbs.	6 95



Pennsylvania Combined Lawn Trimmer and Edger

An efficient ball-bearing Lawn Trimmer and Edger built for durability and service. Cuts to 1/4 inch of walls, posts, trees, etc., and is equipped with steel disc and a small plow for trimming overhanging grass along the edges of paths and flower-beds. Has 9-inch drive wheel and 4 blade cylinder, cuts 6 inches. Weight 22 lbs. \$9.95.



Easy-Emptying Grass-Catchers

Made with galvanized steel bottom, duck sides, and convenient, easy-emptying handle.

No. 10G.	Depth 19 in., fits 12 to 18-in. Mower.	8-oz. duck...	\$1 40
No. 12G.	Depth 21 in., fits 16 to 22-in. Mower.	8-oz. duck...	1 75
No. 16G.	Depth 16 in., fits 12 to 17-in. Mower.	6-oz. duck...	90
No. 18G.	Depth 16 in., fits 16 to 20-in. Mower.	6-oz. duck...	1 10

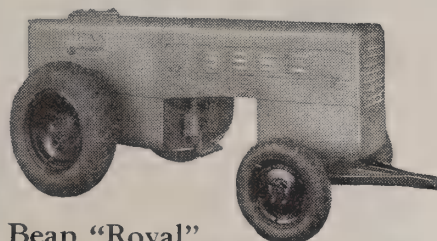
JOHN BEAN POWER SPRAYERS

A SPRAYER FOR EVERY PURPOSE

In making the decision as to what Sprayer you will buy, the most important consideration is not what the Sprayer consists of, but what it will do for you in giving you efficient protection. You need Sprayers that will reach every part of the tree or crop to be sprayed, at sufficient pressure to guarantee perfect results. No one

has ever questioned the efficiency of Bean Sprayers. This year the Bean line offers any size, any type of Sprayer that you may need at prices in proportion to the work to be done.

Bean also manufactures Fruit Washers, Fruit Wipers, Fruit Cleaners, Potato Cleaners, and Potato Graders.



Bean "Royal"
Armored Sprayer

Bean "Royal" Armored Sprayer

An outstanding all-purpose Sprayer for orchard work. It is made of steel throughout, with leakless steel tank proofed against corrosion and fully enclosed. Low construction allows the outfit to go under tree branches; short wheel-base for easier hauling and shorter turning, and countless other improvements that offer the greatest Sprayer value of a lifetime. Built for continuous operation at pressures of 600 to 700 pounds. Powered with 4-cylinder engines. A Sprayer you will be proud to own and use. Available in several sizes and types. Catalogue and prices on request.



Bean Little Giant Duplex
Sprayer, Outfit 3206

Bean Little Giant Duplex Sprayer

Many growers have a limited number of acres of fruit, yet high-grade, clean fruit means just as much to them as it does to the commercial grower with large orchards, therefore they try to give their trees the best of care. You will not be handicapped in your work because this Little Giant Duplex Sprayer gives you real high pressure and efficient spraying at an investment that is in proportion to the amount of orchard to be cared for. You can now get the results you desire in efficiency, capacity, and economy at a reasonable first cost. Price without hose and guns, \$340 f.o.b. factory.



Bean Power Take-off Sprayer

Bean Power Take-off Sprayers

Now, more than ever, growers are depending on their tractors to do all their work. Today the average tractor is used to not only haul the Sprayer but to furnish the power for driving the pump.

Bean offers a complete line of tractor-driven Sprayers for every purpose, either orchard or row crop. These Sprayers come in sizes ranging from 6 gallons at 300 pounds pressure on up through various sizes until the largest one is reached which is 55 gallons at 700 pounds pressure. They are available with either wood or steel tanks and with steel or pneumatic-tired wheels. Ask for 1941 Bean Catalogue describing all sizes of Power Take-off Sprayers, also prices.

Bean Greenhouse Sprayer

The Bean High-Pressure Greenhouse Sprayer offers a unit that meets exclusively all requirements for greenhouse work. For a small investment you get an outfit that is faster and more efficient than the old hand method. It has a 2-cylinder pump with a capacity of $3\frac{1}{2}$ gallons per minute at 300 pounds pressure. It is compact in construction, being only 18 inches wide, 40 inches high, and 27 inches long. Tank has a capacity of 30 gallons and is made of steel. Solid rubber tires are standard equipment. Price with $\frac{3}{4}$ h.p. Electric Motor, \$180; with $1\frac{1}{2}$ h.p. Gasoline Engine, \$200 f.o.b. factory. (Hose and Gun extra.)



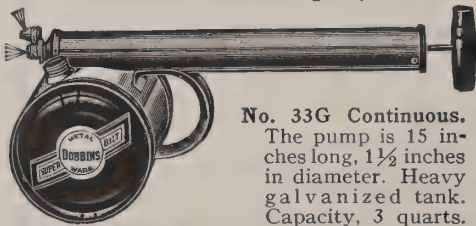
Bean
Greenhouse
Sprayer

Bean Estate Sprayer

Similar in design to Bean Greenhouse Sprayer. Has 50-gallon steel tank and 18 by 4-in. pneumatic rubber tires. Price with $\frac{3}{4}$ h.p. Electric Motor, \$210; with $1\frac{1}{2}$ h.p. Gasoline Engine, \$230 f.o.b. factory. (Hose and Gun extra.)

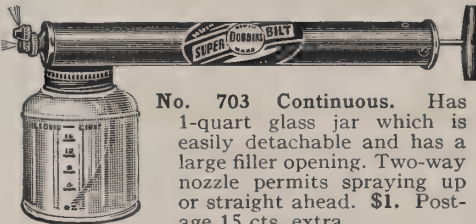
Bean Sprayers are built in many types and with many pump and tank capacities. Complete catalogue and prices gladly sent on request

Dobbins Hand Sprayers

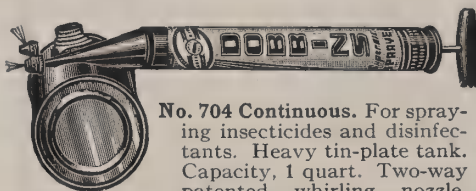


No. 33G Continuous.
The pump is 15 inches long, 1½ inches in diameter. Heavy galvanized tank. Capacity, 3 quarts.

\$1.35. Postage 15 cts. extra.



No. 703 Continuous. Has 1-quart glass jar which is easily detachable and has a large filler opening. Two-way nozzle permits spraying up or straight ahead. \$1. Postage 15 cts. extra.



No. 704 Continuous. For spraying insecticides and disinfectants. Heavy tin-plate tank. Capacity, 1 quart. Two-way patented whirling nozzle.

75 cts. Postage 10 cts. extra.



No. 700. For use about the house, garden, poultry-house, etc. Very sturdy construction. Pump 1¼ inches in diameter. Capacity, 1 quart. 40 cts. Postage 10 cts. extra.

No. 702. Pump 1½ inches in diameter. Capacity, 1 quart. 30 cts.

No. 710. Household Sprayer. Capacity, 10 ounces. 25 cts.

No. 720. Has glass container. Capacity, 5 ounces. 15 cts.

Blizzard Sprayer



An efficient continuous Sprayer for all water-soluble insecticides, disinfectants, etc. Copper tank and seamless brass pump. Tank has large opening making it easy to clean and fill. Nozzles adjustable for fine or coarse spray, also straight or angle as desired.

No. 14Q. \$2.

Harco Sprayer

An efficient, easy-to-use Sprayer for indoor or outdoor plants. Splendid for house-plants and seedlings in flats. Uses any water-soluble liquid insecticide.

\$1.95.



Dobbins "Super" Big Head Sprayer



All of the latest improvements in Sprayer construction and design are built into this "Super" Sprayer. The tank opening is 5½ inches in diameter, which permits easy filling and cleaning. The pump is made of seamless brass tubing, 1¼ inches in diameter, 16 inches long, with patented air-valve. Has double-grip handle so that both hands can be used for pumping. Furnished with 22-inch length of hose, 24-inch brass extension, and brass adjustable nozzle. Capacity of tank, 4 gallons.

No. 44G. Galvanized Tank.....\$6 50

No. 44B. Copper Tank.....10 75

Dobbins Big Head Sprayer



An outstanding Sprayer for spraying insecticides, disinfectants, and white-wash. The "Big Head" provides a 4-inch opening for filling and permits easy cleaning. The tank is substantially riveted, beaded, and soldered. Has high-pressure unit pump with dependable air-valve. Furnished with automatic shut-off, 22-inch length of hose, 24-inch brass extension rod, and brass angle nozzle. A really high-grade Sprayer at a moderate price.

No. 32G. 3-gal. Galvanized Tank....\$4 70

Dobbins Fun-L-Fill Sprayer



A good quality Sprayer throughout and designed to meet the demand for a Sprayer at a favorable price. Equipped with Fun-L-Fill for convenience in filling. Tank is made of heavy galvanized steel and is substantially built. Seamless brass tubing pump. Has 20-inch length of spray hose, 20-inch brass curved extension rod, and brass nozzle.

No. 9G. 2-gal. Galvanized Tank.....\$2 95

No. 21G. 3½-gal. Galvanized Tank... 3 60

No. 21B. 3½-gal. Copper Tank..... 6 65

Willson Dustite Respirator

Protects your nose, mouth, throat and lungs when spraying or dusting. \$2.25.

The Myers Compressed-Air Sprayer



The Myers Compressed-Air Sprayer meets all demands for this style of Sprayer. The tank is made of heavy galvanized iron or brass. The side wall is close riveted and soldered. The top and bottom are made of extra-heavy material. Has 1¼-inch brass tube air pump. Equipped with 24-inch length of hose, 18-inch brass extension and adjustable brass nozzle to spray at any desired angle.

The concave top forms an 8-inch funnel which permits easy filling. The removable discharge tube and hose connection permit thorough drainage and cleaning of the tank.

No. 2240. 2½-gal. Galvanized Tank...\$5 80

No. 2240B. 2½-gal. Brass Tank.....10 00

No. 2242. 4-gal. Galvanized Tank.... 6 55

No. 2242B. 4-gal. Brass Tank.....11 00

Aeroil Weed Burner



A proved method of destroying weeds and weed seeds quickly and economically; for disinfecting animal quarters and many other uses. Uses kerosene for fuel. Produces a

powerful reddish blue flame, 3 inches in diameter, 30 inches long, of intense heat (2000° F.). Size of flame easily controlled by a regulating valve. Anyone can operate it—absolutely safe. Average oil-consumption 1 gallon per hour. Well constructed, light, compact, portable.

No. 99. 4-gal. corrugated, extra-heavy Galvanized Steel Tank, 2-inch Brass Pump; Pressure Gauge; 7-ft. High-test Hose. \$20.

No. 99BS. Outfit No. 99 with spray attachment, as illustrated. \$22.50.

Universal Insect-O-Gun

Kill Insects with Your Garden Hose

Attached to your garden hose, it ejects a penetrating fine, fan-shaped spray, reaching every insect in its path. Sprays up at a 30° angle making it easy to spray the under side of foliage. Can be used with any spray material requiring water solution. Built of non-rusting metal and will last a lifetime. Has convenient hook to hang up the Gun when not in use. Jar holds one pint. Each filling of jar delivers 2 gallons of spray. \$3.75.

Long solution tube for 1-quart jar, extra, 30 cts.



\$3.75

We carry repair parts for all sprayers shown in this catalogue



The Arnold Garden Hose Insecticide Sprayer is a special mixing and spraying device which is attached to the garden hose in place of the regular nozzle. Arnold Soluble Insecticide Cartridges are placed in the cartridge chamber and as the water passes through the chamber under pressure the Cartridge is dissolved in the correct solution and forced out of the nozzle in the form of a fine, cloud-like spray. It is ruggedly constructed, light in weight, and undoubtedly the most practical labor-saving tool ever developed for gardeners.

Arnold Sprayer. Without Cartridges...\$3 50

Combination Set. Arnold Sprayer with 6 assorted Cartridges..... 4 75

36-inch Straight Extension. For spraying tall shrubbery, etc..... Each.. 1 50

P-R (Pyrethrum-Rotene), Pyr-O-Spray, Rot-O-Spray, and Nic-O-Spray Cartridges, 35 cts. each.

Arsen-O-Spray, Funguspray, Sulph-O-Spray and Dorm-O-Spray Cartridges, 25 cts. each.



CCC Spray Pump

An Efficient and Inexpensive Sprayer for Tall Trees

A very simple and powerful Sprayer. Ideal for spraying liquid insecticides of all kinds.

Will produce sprays of varying fineness—from a mist to a straight stream that carries 60 feet. Tall trees may be sprayed from the ground. For spraying truck crops, such as potatoes, the knapsack is used with the Pump.

The Spray Pump is made entirely of brass. Equipped with 3 nozzles and transparent strainer.

CCC Spray Pump. For use with any pail or bucket.....\$6 85

CCC Spray Pump, with 5-gal. Galvanized Knapsack.....12 85

Dobbins Wheelbarrow Sprayer

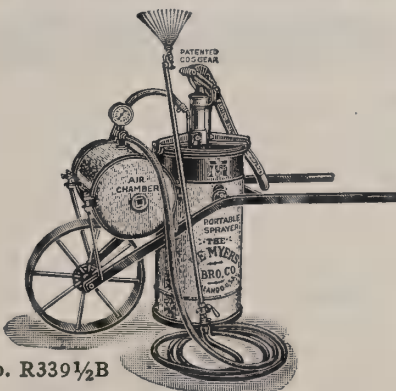


This outfit is adapted for spraying small orchards, vineyards, truck gardens, in the greenhouse, and a very convenient and efficient rig for whitewashing and disinfecting poultry-houses and dairy-barns. It can be used on hillsides and uneven ground without danger of tipping. Heavy galvanized tank, capacity 12½ gallons. Equipped with 6 feet of ¾-inch 5-ply hose, 2-foot pipe extension, spray nozzle and pressure gauge.

No. 3171. With air-pressure tank.....\$18 25

No. 3170. Without air-pressure tank... 12 50

The Myers Portable Sprayer



No. R339 1/2 B

A handy outfit suitable for spraying trees, whitewashing, painting, etc. The tank is made of extra-heavy galvanized iron, reinforced at top and bottom by steel bands, and hung in the frame on trunnions. The pump is securely attached to the tank by means of a clamp connected direct to the channel iron that surrounds the top of the tank held in position by one thumb-screw. Pump is fitted with dasher agitator. The handle can be located at any point desired.

Equipped with 15 feet of ½-in. hose, 8-foot extension, and Vermorel nozzle. Capacity 12½ gallons.

No. R339 1/2 B. With air-chamber...\$42 50

No. R336 1/2 B. Without air-chamber... 26 50

Myers Cog Gear Spray Pump

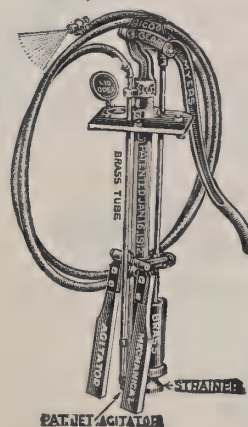


Recommended for orchard and row-crop spraying. Will fit in an ordinary farm wagon-box.

Has brass valves and ground bevel brass seats, 2-inch seamless brass removable cylinder, and leather-packed plunger.

No. R316B. Pump complete, 50-gallon barrel mounted on skids, with pressure gauge, 15-foot lead of ¾-inch 7-ply discharge hose, nozzle, 8-foot pipe extension, lever shut-off and mechanical agitator. \$60.

Myers Barrel Spray Pump

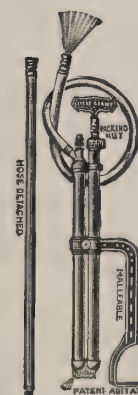


The Myers Barrel Spray Pump is designed to meet the requirements where a good Pump at a moderate price is desired. It is a thoroughly serviceable Pump, well made, simple in construction, and is recommended to the farmer with an ordinary-sized orchard. Has bronze ball valves and brass seats.

No. R318B. Myers Cog Gear Barrel Spray Pump, with one lead of

15 feet of ½-inch 5-ply discharge hose, graduating Vermorel nozzle, and mechanical and jet agitator, without barrel, \$17.

Myers Little Giant Sprayer



This Spray Pump is constructed entirely of brass. It is so arranged that the labor of pumping is all done on the downward stroke of the piston and nothing on the up. The effect of this operation while pumping is to hold the pump down. The foot-rest steadies the pump, holding it in position. Has jet agitator.

It is provided with a large air-chamber. The nozzle throws a continuous spray and is not affected by the movement of the plunger. Will throw a solid stream 50 feet.

No. 327 1/2. Complete with hose and Imperial combination fine- and coarse-spray and solid-stream nozzle, \$4.50. Whitewash Nozzle, extra \$1.20.

Dobbins Power Wheelbarrow Sprayer



No. 3193

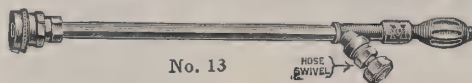
Dobbins Eveready Power Sprayer shown on page 84

A new portable Power Sprayer for the greenhouse, florist, nurseryman, small orchardist, estate owner, etc. Tank made of heavy galvanized steel, 18-gallon capacity. Brass pump has capacity of one gallon per minute at 250 pounds' pressure. Brass spray gun with variable discharge, from a fine fog spray to long-distance spray.

Furnished with 1½ H.P., 4-cycle engine, 12½ feet of ¾-in. discharge hose, spray gun, and pressure gauge. **No. 3193.** \$85. **No. 3193BT.** With semi-pneumatic tired wheels, \$90.

Power Spray Guns

Designed for use with any power spray pump.



No. 13

No. 13. Myers. Will discharge a long-distance spray by means of which the top of the highest fruit tree can be reached, or it can be instantly changed to a very broad spray or shut off entirely. Hose swivel removes all twists in the hose. \$8.

Bean "Fog-Drive" Guns. They produce a fine fog spray with long-distance drive and assure complete coverage of both sides of all leaves and blossoms, using the minimum amount of spray mixture. The nozzle-head, rod, and handle are made of aluminum alloy. Rod is 39 inches long.

No. 773. 3-nozzle gun.....\$10 50

No. 774. 4-nozzle gun.....12 00

No. 776. 6-nozzle gun.....16 00

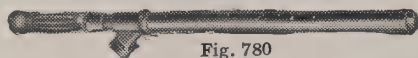


Fig. 780

Fig. 780. Bean Spraymaster Gun. Perfection in spray atomization with a spray that can be adjusted to any type wanted. It is an antifriction Gun which gives the highest velocity and softest spray which is so essential for careful, economical spraying. \$10.

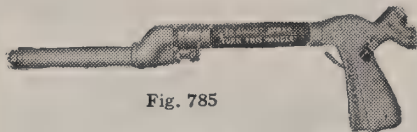


Fig. 785

Fig. 785. Bean Spraymaster DeLux Gun. A new design of Gun with trigger shut-off and adjustment for the spray, giving any type of spray wanted. Especially desirable for all shade-tree spraying. \$20.



No. 1284

Sure-Grip Hose Couplings. Made of brass. For use with power sprayers. $\frac{3}{8}$ -in. or $\frac{1}{2}$ -in. **No. 1284.** Complete 65 cts.; female half 45 cts.



No. 2616

Sure-Grip Hose Clamps. Grips the hose coupling. Can't slip off. **No. 2616.** 30 cts.

Hose-to-Pipe Connection. Made of

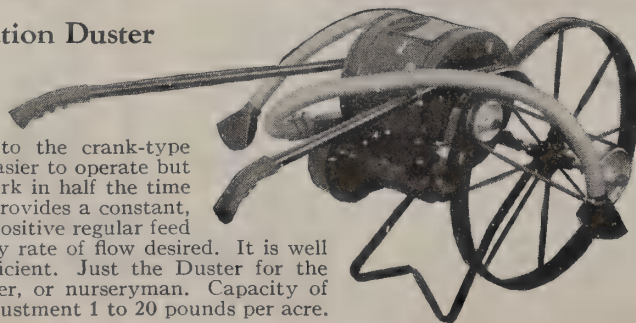
brass. Has $\frac{1}{4}$ -in. pipe-thread. For $\frac{3}{8}$ - or $\frac{1}{2}$ -in. hose. **No. 1325.** 40 cts.

Asbestos Torch

A practical device for burning caterpillars, worms, and other tree pests. Has ball filled with asbestos fibre; attaches to any pole. 60 cts.

Root Challenger Traction Duster

This Duster was designed to meet the demand for a more efficient and less laborious method of dusting vegetables. In comparison to the crank-type Duster it is not only much easier to operate but does twice the amount of work in half the time and with better results. It provides a constant, mechanical agitation with a positive regular feed and immediate control to any rate of flow desired. It is well constructed, durable and efficient. Just the Duster for the truck gardener, potato grower, or nurseryman. Capacity of hopper $7\frac{1}{2}$ pounds. Feed adjustment 1 to 20 pounds per acre. Weight, 38 pounds. \$31.50.

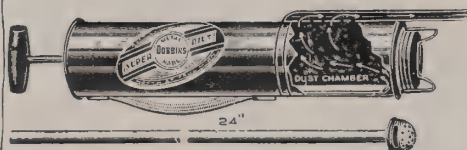


Hand Dusters



No. P1 Root. A very efficient and durable Duster for the flower and vegetable garden. Has large powder chamber and adjustable nozzle which permits dusting underside of foliage. Length, 20 inches. \$1.50.

No. P2 Root. Similar to No. P1 shown above except has much greater capacity. Both Dusters are made of steel which insures long life. Length, $32\frac{1}{2}$ inches. \$2.75.



No. 132. Dobbins. Handles all kinds of dry dust very efficiently. It is used in the home-garden, on truck-plots, around poultry-houses, etc. Furnished with 24-inch extension tube and two-way dust cap for dusting over and under leaves. Capacity, 1 pound. \$1. Postage 15 cts. extra.



No. 140. Dobbins. A favorite for dusting about the home against roaches, ants, flies, mosquitoes, etc. Pump 10 inches long. 40 cts.

No. 110. Dobbins. Pump $5\frac{1}{2}$ inches long. 15 cts. Postage 10 cts. extra.

Woodason's Insect Powder Bellows



Just the thing for dusting insecticides in houses and gardens. Particularly adapted for eradicating bedbugs and roaches. Being strong, it blows the powder well behind the woodwork and into the cracks where the insects breed. It is exceptionally well made of high-grade materials. Small size \$3.50; large size \$5.



National Ezy-Wear Garden Gloves

Easy on the hands and easy to wear. Sizes for Women (Small, Medium, Large); for Men (Medium, Large). 75 cts. per pair, postpaid.

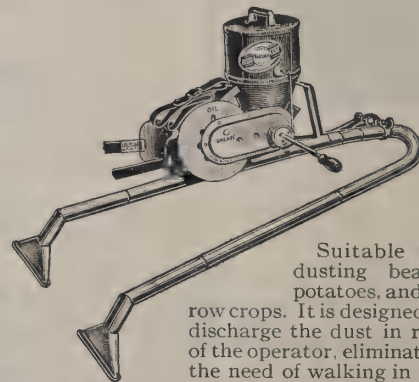


The Root Hand Gun

The ideal Dust Gun for dusting all kinds of agricultural dusts where the acreage is not large enough to justify the use of traction or power dusters. The gears are bronze and run on ball-bearings packed in grease. Has a powerful fan-blast which thoroughly breaks up the dust and distributes it evenly and uniformly. Can be operated with discharge tube in front or to the rear of the operator. The hopper has a capacity of 7 to 10 pounds of material. Built to stand hard knocks and rough usage. **No. C3.** \$18.25.

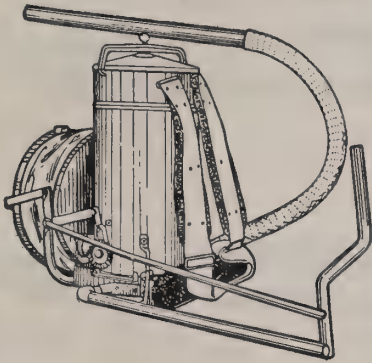
No. C1 Root Duster. A sturdily constructed Duster designed to operate perfectly with any commercial dust. Geared high, it produces a steady, uniform flow of dust with a minimum of effort. Fan-case can be rotated to direct the nozzle arm at any angle for high or low plants or for dusting to the rear of the operator. Ideal for the market gardener, florist, or home gardener. Hopper capacity, 3 pounds. \$12.

Dobbins Universal Duster

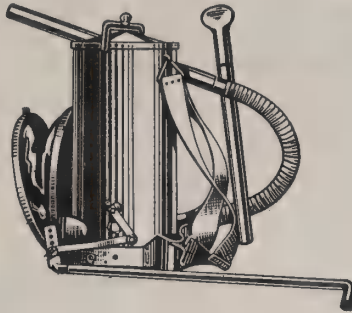


Suitable for dusting beans, potatoes, and all row crops. It is designed to discharge the dust in rear of the operator, eliminating the need of walking in the dust. Constructed of heavy lead-coated steel. Steel cut gears run in oil and contained in dust-proof case. Feeding device positively regulated by handy control and volume indicator. High-speed fan runs in bronze bearings. Equipped with attachments for dusting one or two rows. Discharge adjustable to any angle and for various widths of rows. Capacity 5 to 10 pounds, depending on material used. **No. 200.** \$12.70.

No. 100 Dobbins Duster. A well-made Duster with many important features of the No. 200 Duster. Comes complete with attachments for dusting one or two rows. Capacity 3 to 6 pounds of dust. Recommended to those desiring a smaller capacity and lower-priced Duster. \$10.25.

American Beauty Duster

Most powerful one-man Duster built. Drives dust 25 feet in air. Compound handle makes operating of bellows easy. Equipped with instant feed-control, flexible hose, 40-inch tubes and deflector to blow up under lower leaves. Capacity 15 to 20 pounds of dust. Internal moving parts constructed of brass or rustproof plating. Weight, 17½ pounds. \$22.50.

California Beauty Duster

The most satisfactory vegetable Duster built. Fast, easy-operating bellows produces an almost unbroken cloud of dust. Dust-cloud under complete control at all times, eliminating waste. Equipped with instant feed-control, flexible hose, 40-inch tubes and deflector to blow up under lower leaves. Capacity, 15 to 20 pounds. Internal moving parts constructed of brass or rustproof plating. Weight, 15 pounds. \$17.50.

Tree Surgery Tools

No. 251. Greenlee Socket Chisel. Made extra heavy and designed especially for tree surgery. ¾-in., \$2.25; 1-in., \$2.50; 1¼-in., \$2.75.

No. 341. Greenlee Socket Gouge. Blade and socket made from one piece of steel. Designed for cutting excavations in live trees. ¾-in., \$2.50; 1-in., \$2.75; 1¼-in., \$3.

Lignum-vitæ Mallets. Square shape, weight 2 lbs., \$1.25; barrel shape, weight 1 lb., 10 ozs., \$1.

No. 2 Cavity Slick. ⅝ in. wide, 75 cts.

No. 24 Taper and Square Slick. ¾ in. wide, 85 cts.

No. 28½ Taper and Oval Spoon Slick. 1 in. wide, \$1.

No. 95 Greenlee Earth Auger. Used to bore holes to fertilize trees. Length overall, 40 in., 2-in. diam. \$3.50.

Bartlett Tree Trimmers

No. 1-RJ Compound Lever Type. Built for heavy work and will cut a limb up to 1¼ inches in diameter. Rod connects the knife lever along one side of the pole to the handle lever on the opposite side, which allows the rod to cross the pole and results in half of the strain on each side of the pole, giving about double strength. This is a jointed pole pruner and has several advantages over a solid pole type of pruner. Sections are joined by means of brass sleeves making the tool perfectly rigid. 8-ft., 2 sections, \$6.75; 12-ft., 3 sections, \$7.50; 16-ft., 4 sections, \$8.25, postpaid.

No. 1-W Pulley Type. Furnished with jointed pole. Has rope-operated cutting head. Each section is 4 feet long and equipped with brass sleeve body on one end and brass ferrule on opposite end. As many of the lower sections can be used as desired. An ideal pruner for use near high-tension power lines. 4-foot top section, \$7.50; extra 4-foot sections, each \$3, postpaid.

Disston Pole Pruning Saw

Designed for general tree pruning but especially intended for use where the limbs are larger than the capacity of the ordinary Pole Pruner. A favorite with telephone and telegraph linemen, foresters, tree surgeons, etc. Blade made of Disston steel, 18 in. long, 20½ in. over all. Has long, slender needle-point teeth, 5 points to the inch, designed to cut on the draw stroke. Butt-end of blade forms a hook, making it convenient to pull cut limbs from the tree. Blade securely attached to handle with 3 bolts and nuts.

No. 808. 8-ft., \$3.80. **No. 810.** 10-ft., \$4. **No. 812.** 12-ft., \$4.20.

Clyde Tree Trimmer

No. 5407. Blade and hook are made from the best tool steel, firmly riveted to selected basswood handle. The blade is held open by means of a coil spring from the lever handle to the pole. A well-made Trimmer at a low price. 8-ft., \$2; 10-ft., \$2.25; 12-ft., \$2.45; 14-ft., \$2.65; 16-ft., \$3.10.

No. 777 Bartlett Tree Pruner

A Pruner designed on scientific principles and built to stand up to the work. The blade positively will not cut or dig into the hook. Both blade and hook are hardened drop forged crucible tool steel. Handles white ash, 26 inches long. \$4.25.

Clyde Hand Pruner

An excellent tool for an occasional job. Blade and hook hammer forged from carbon steel, hardened and tempered. Ash handles securely held to head by two rivets. A well-made Pruner at an attractive price. \$1.25.

FOR TREE PAINT, SEE
PAGE 64

No. 777



No. 1-RJ



Disston

No. 5407

Porter HKP. Forester

Patented slide shift gives amazing multiplication of cutting pressure. No strain on tool or operator. Cuts close up, two sharp cutting blades.

No. 1. Cuts 1 ⅞-in. green wood. 20-in. \$5 00
No. 2. Cuts 1½-in. green wood. 27-in. 6 00
No. 3. Cuts 2-in. green wood. 34-in. 7 00

Porter HKP. Pointcut Pruner

The blades are so designed that suckers are cut on the point with minimum handle opening and limbs up to 1¼ inches in diameter with full handle opening. It is in reality two tools in one.

No. 120P. 20-in. handle. \$5 00
No. 124P. 24-in. handle. 5 10
No. 127P. 27-in. handle. 5 20



Cuts 1½-inch limbs with ease. Length 24 inches. \$3.

Tiffany "Hammer-Forged" Pruner

Forged from special steel and tempered to stand the strain and hold a keen edge. Put together with a heavy rivet under tremendous pressure, no nuts to work loose.



No. D-127 Disston's Pruning Saw

A 10-inch section at point of blade is made 6 points to inch; rest of blade has "lumberman" teeth. The fine teeth are for starting cut. Blade 26 inches long. \$4.35.



No. 7 Disston's Pruning Saw

An old stand-by. Designed for general pruning. Blade of Disston steel, taper ground; cross-cut teeth, 8 points to the inch. Hardwood handle, open grip; three brass screws. Blade 18 inches long. \$1.60.



No. 32 Disston's Pruning Saw

Just the tool for foresters and orchardists. Steel blade 20 inches long, 5 inches wide at butt, 1 inch wide at point. Champion teeth. Hornless handle of beechwood. Dowel pin through grip gives unusual strength to the handle. 20-inch blade, \$2.80; 24-inch blade, \$3.35.



No. D27 Disston's Pruning Saw

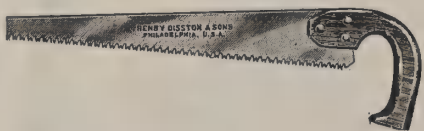
Designed for the professional. Steel blade 26 inches long, 6 inches wide at butt, 1 1/4 inches wide at point; 6 points to the inch. Cuts on both draw and push stroke, either dry or green wood. \$4.



No. K40 Disston's Keystone Pruning Saw

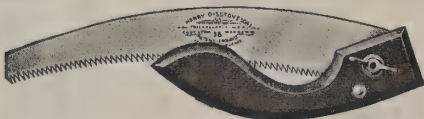
Steel blade with double straight-edge; one edge, 8 point cross-cut teeth and other edge "lumberman" teeth. Blade secured to hardwood handle with three rivets.

16-inch \$1.20; 18-inch \$1.30; 20-inch \$1.40.



No. 14 Disston's Pruning Saw

Has "Champion" teeth which cut unusually fast on both draw and push stroke. Blade 22 in. long, 3 3/4 in. wide at butt, 1 1/4 in. at point. Large, open-grip handle. \$2.25.



No. 38 Disston's Pruning Saw

Folding handle makes it convenient to carry in pocket. Steel blade, 12 inches long; 8 point needle teeth. Cuts on draw stroke. \$1.60.



No. 15 Disston's Pruning Saw

Steel blade 14 inches from center to center of hole, 1 inch wide, 8 points to the inch; adjustable; cuts on both draw and push stroke; swivel on both ends; wing-nut tightener. \$2.35.



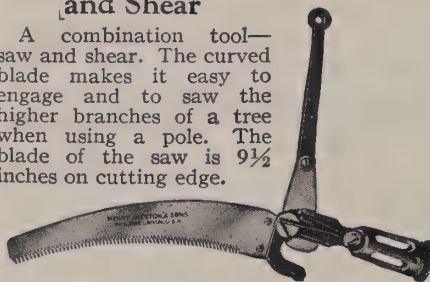
Disston's No. 166 Pruning Saw

A good, strong, practical tool with 14-inch crescent-shaped steel blade; 1 1/2 inches wide at handle; teeth on concave edge to cut on draw stroke; 8 points to the inch. \$1.40.

No. 168. Similar to No. 166 but cuts on both draw and forward stroke. \$1.65.

No. 55 Orchard Pruning Saw and Shear

A combination tool—saw and shear. The curved blade makes it easy to engage and to saw the higher branches of a tree when using a pole. The blade of the saw is 9 1/2 inches on cutting edge.



Shear frame and socket is made of malleable iron. Blade shaped to cut with a shearing motion. The hook will take a 3/4-inch or smaller limb. Shear blade is 4 inches long with 1 1/2-inch cutting edge. Spring returns knife to open position. Price, without pole, \$3.75.

No. 114 Pruning Saw. Same as No. 55 except blade is 14 inches long and without shear. \$2.45.

Pruning Poles. Made of basswood, 12 feet long. \$1.50.



Tiffany Grafting Tool

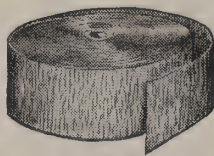
Forged from one piece of fine crucible steel. It makes clean splits and does not tear the bark or split the stub too far. Length 8 inches. \$1, postpaid.



Tiffany Improved Tree Scraper

A handy tool for removing loose bark that harbors insects. Made of thin forged spring steel. Length 12 inches. \$1, postpaid.

Duratex Waterproof Tree Wrap



Protects the trunks of newly planted trees against frost, sun scald, borer attack and rodents. Easily applied. 4 in. wide. Put up in rolls containing 155 lineal feet. Roll 75 cts., 10 rolls \$6.50, 25 rolls \$12.50.

Pruning Shears



Disston No. 140. Solid drop forged tool, steel blade and hook lever, ground and polished. Thread and lock-nut tension adjustment. Volute spring. 9-inch, \$1.



Disston No. 146. Solid drop forged tool steel with blade hardened, tempered, ground and polished. Thread and lock-nut tension adjustment. An outstanding value. 9-inch, \$1.50.



Disston No. 107. Reiser pattern. Recommended for light, close pruning. Extra thin, high carbon tool steel blade. Double leaf brass spring. 8 3/8-inch, \$1.75.



Disston No. 156. Drop forged high carbon steel hook and cutter levers. Blade of alloy steel, hardened and tempered. Patented tension adjustment. Volute spring. 8 1/2-inch, \$3.50.



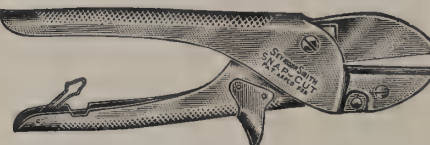
Disston No. 227. The latest, most modern hand pruner developed to date. Blade-on-anvil type. Thumb-operated catch. Handles fluted to give firm grip. Weight 5 1/2 ounces. 8 3/8-inch, \$2.50.



Wiss No. 609. Solid drop-forged steel. A strong and durable Pruner. 9-inch, \$1.50.



Genuine French Shears. Forged tool steel blade. Drop forged handles. Wheel-spring type which insures easy, positive action. 9-inch, \$3; 11-inch, \$3.50.



Snap-Cut Pruner. Makes a perfect clean cut on large or small branches. All-steel construction. No. 119. 8-inch, \$2.

Tilley Ladders

They are the most convenient orchard ladders ever produced for trimming trees and picking fruit. Made very light and strong. The best that can be produced.

Single Ladders

OPEN TOP

10-foot.....\$3 75	20-foot.....\$8 00
12-foot.....4 50	22-foot.....8 75
14-foot.....5 25	24-foot.....10 50
16-foot.....6 00	26-foot.....11 50
18-foot.....7 15	28-foot.....14 00

POINTED TOP

13-foot.....\$5 75	21-foot.....\$9 25
15-foot.....6 75	25-foot.....12 00
17-foot.....7 50	27-foot.....13 00
19-foot.....8 50	

Point included in above measurement.

Extension Ladders

OPEN TOP

24-foot, extends to 21 feet.....	\$11 00
26-foot, extends to 23 feet.....	12 00
28-foot, extends to 25 feet.....	12 75
30-foot, extends to 27 feet.....	13 75
32-foot, extends to 29 feet.....	14 50
34-foot, extends to 31 feet.....	16 00

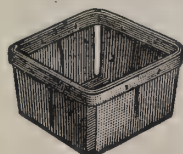
Omega Tripod Step-Ladder

Particularly adapted for fruit-picking and for use on uneven ground. Light, strong, rigid, broad-based. Easy to stand on; easy to move; folds up snugly.

6-step...\$3 60	10-step...\$6 00
8-step...4 80	12-step...7 80

A first-class, well-made article. All flat steps. The two lower are supported by and rest on rounds which tie, support and thoroughly brace the main ladder.

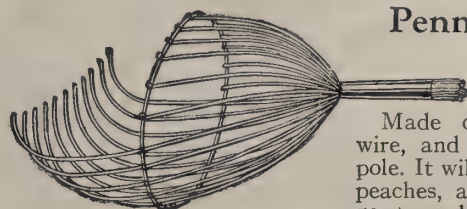
Tilley Ladders are neither painted nor stained and the purchasers can see just what they are buying.



FRUIT PACKAGES

We make a specialty of Fruit Packages, all kinds and sizes to suit the gardening and fruit-growing trade in western Pennsylvania, among which are the following: Berry Baskets, Diamond

Market Baskets, Grape Baskets, Stave Baskets, and Till Baskets. When you are in the market for Baskets, please ask us for prices.



Pennsylvania Fruit-Picker

Made of heavy galvanized wire, and easily adjusted to a pole. It will gather apples, pears, peaches, and all similar fruits. 50 cts. each, postage 10 cts. extra.

Facing Forms, Liners, and Caps

We can furnish Facing Forms, Liners, and Caps used for packing apples and other fruits. Made in half-bushel and bushel sizes. Circular and prices on request.

Owosso Folding Fruit and Vegetable Crate

Made strong and durable. Used extensively for handling apples, potatoes, onions, and tomatoes from the fields; also for storage purposes. They stack up as high as desired and provide the right amount of ventilation.

Size, 15½ inches wide, 17¾ inches long, 13½ inches deep. Holds one heaping bushel. 60 cts. each, prepaid 75 cts.; \$5.25 for 10, \$22.50 for 50, \$43 per 100, prepaid.

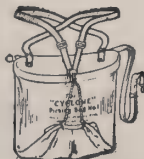


Cyclone Picking Bags

Especially adapted for picking apples and other fruits. Made from "A" grade Duck with two adjustable straps and a steel band to keep the mouth of the Bag wide open. To empty, simply release rope from the hook.

No. 1. Holds about 1 bushel. \$1.75.

No. 10. Made from heavier material throughout. Adjustable for about ½-bus. or 1-bus. \$2.



ROOFING AND PAINTS

Barrett Everlastic Mineral-Surfaced Roofing

Exceptionally high-grade Roll Roofing for use on steep-roofed buildings of all types. Quickly applied, it makes a weather-tight, durable, fire-safe roof.

Each roll contains 108 square feet, with galvanized nails and cement for proper application. Width of roll, 36 inches. Weight, 90 pounds. Colors: Emerald-Green, Blue-Black, Spanish Red. \$2.85 per roll; 10-roll lots, \$2.75 per roll.



Barrett Vitex Mineral-Surfaced Roofing

A Mineral-surfaced Roll Roofing at low cost. Each roll contains 108 square feet, with nails and cement. Width, 36 inches. Weight, 75 pounds. Colors: Red, Green, Blue-Black. \$2.70 per roll; 10-roll lots, \$2.60 per roll.

Barrett Panamoid Smooth-Surfaced Roofing

Made of good-quality felt and saturant, finished with corrugations on both sides. Nails and cement packed with each roll.

Medium (45 lbs.), \$1.90 per roll; Heavy (55 lbs.), \$2.15 per roll; Extra-Heavy (65 lbs.), \$2.45 per roll; 10-roll lots, 10 cts. per roll less.

Barrett Tomahawk Smooth-Surfaced Roofing

Meets the need for a good, low-priced Roll Roofing for general use on buildings and for temporary protection for cement and other building materials. Nails and cement packed with each roll.

Light (35 lbs.), \$1.40 per roll; Medium (45 lbs.), \$1.60 per roll; Heavy (55 lbs.), \$1.80 per roll; 10-roll lots, 10 cts. per roll less.

Sherwin-Williams Liquid Roof Cement

A combination of pitches, oils, and long asbestos fiber for repairing all types of roofs. Apply it with a roofing-brush. Comes in black. Gal. can 80 cts., 5-gal. can \$3.25, 30-gal. drum \$15.20.

Sherwin-Williams Elastic Roof Cement

For patching large holes, joining and relining gutters, downspouts, drain-pipes, chimney flashings, etc. Should be applied with a trowel. Black. Lb. 16 cts., 5 lbs. 60 cts., 10 lbs. 95 cts.

Sherwin-Williams Commonwealth Barn Paint

For barns, sheds, roofs, silos, fences, etc., a bright red. Works easily; has good spreading capacity. One gallon will cover about 500 square feet one coat. Qt. 65 cts., gal. \$1.75, 5 gals. \$8.25.

Keene Portable Hothouses

GROW EARLIER, HEALTHIER PLANTS

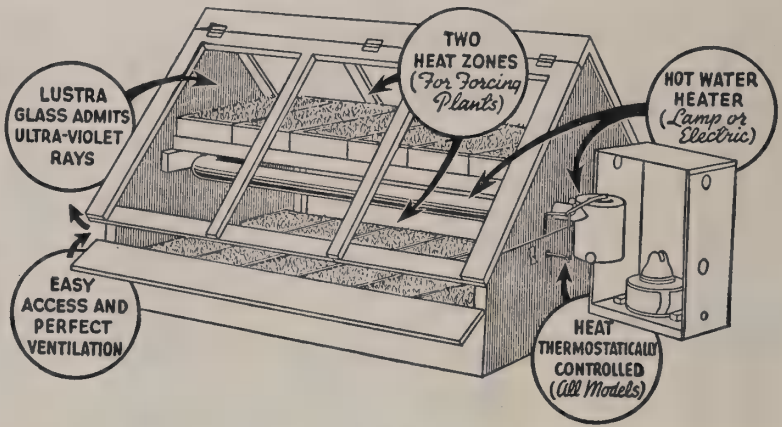
Grow vegetable and flower plants from seeds or bulbs. No more losses from sudden freezes. No more parasitic disease or mildew from manure. Higher percentage of germination and stronger root development. Saves two weeks to a month with spring gardening. Many other uses during the year. Hot-water heated, automatically controlled. Low fuel or current consumption. Comes in four sizes. Circular on request.

	Oil or Gas	Electric
No. 0. 31x30 inches, holds 12 flats.	\$21 95	\$23 95
No. 1. 31x41 inches, holds 18 flats.	25 95	27 95
No. 2. 31x67 inches, holds 30 flats.	31 95	33 95
No. 3. 31x134 inches, holds 60 flats.	64 90	64 90

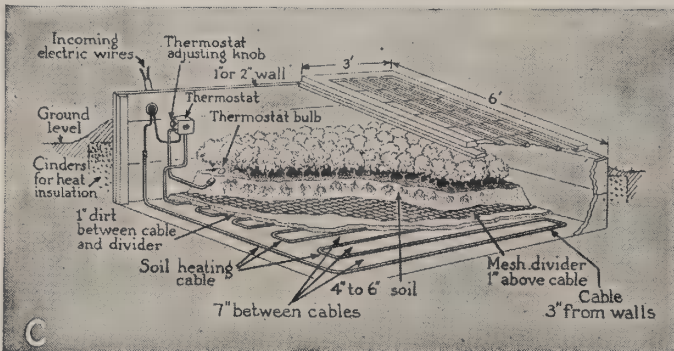
Flats, 13 in. x 5½ in. x 2¼ in. deep, 17 cts. each.

All models 26 inches high. No. 3 not furnished in oil burner.

Prices quoted do not include flats and are f.o.b. factory.



General Electric Automatic Soil Heating



Provides a convenient and economical method for heating hotbeds, greenhouse benches, coldframes, etc. Any minimum temperature from freezing to 90° F. can be selected and maintained. Gives positive control of plant-growth and more uniform and more vigorous plants in a shorter time.

Soil Heating Kit

Designed for home gardeners and small growers.

No. 69X787. 115-volt AC Kit, Thermostat, and 60-ft. Cable Assembly (for beds of 36 sq. ft. or less), \$16. Extra 60-ft. Cable Assembly, \$4.50.

No. 69X788. 230-volt AC Kit, Thermostat, and 120-ft. Cable Assembly (for beds of 72 sq. ft. or less), \$20. Extra 120-ft. Cable Assembly, \$8.50.

All Kits complete ready to plug into any AC outlet.

Cable also available in standard 60-foot lengths for 115 volts and 120-ft. lengths for 230 volts, at 7 cts. per ft. Thermostat, \$9. One Thermostat will control from 1 to 6 lengths of either cable.

Ask for publication GEA1644F.

Germaco Hotkaps



Germaco Hotkaps can make many extra dollars for you this season. They are patented wax-paper cones—"individual hothouses for each plant" that completely cover them, and fully protect them from frost, wind, rain, ground-crusting, and insects. This is your assurance of earlier, bigger crops, and higher, early-to-market

prices. Hotkaps are inexpensive and easy to use.

	Postpaid		Postpaid
25 Hotkaps...	\$0 50 \$0 60	500 Hotkaps..	\$6 00 \$6 35
100 Hotkaps...	1 85 1 95	1,000 Hotkaps..	10 75 11 10
100 Hotkaps*..	2 75 2 90	5,000 Hotkaps..	52 50
250 Hotkaps*..	4 00 4 20	10,000 Hotkaps..	102 50

*Garden Setter and Tamper included at price quoted

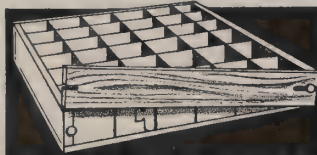
Garden Setter, made of light metal, 50 cts. each.

Steel Setter and Tamper, \$1.50 each.

Steel Tamper alone, 25 cts. each.

B-B Garden Flats

Made of choice lumber. Has patent detachable front which permits plants to be removed without disturbing the roots. Suitable for starting any kind of seeds indoors. Can be used either with or without pots. Size 12⅝ x 18⅝ x 3 inches. Holds 54 2-inch pots or 24 3-inch pots. Price (without pots) 55 cts. each; 25 or more, 50 cts. each.



B-B Waterproofed Plant-Boxes



An economical Plant-Box for those who desire to have earlier and better flowers and vegetables. When plants are ready to set outdoors, simply unlock bottom, fold flaps back, and place plants in ground without disturbing roots. Consists of Plant-Box made of heavy cardboard and 12 folding Cardboard Pots. 15 cts. each, \$1.50 per doz., postpaid.

Neponset Red Flower Pots



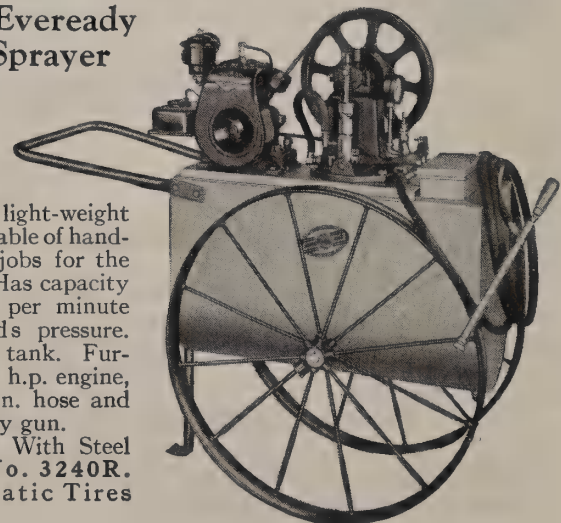
Neponset Flower Pots are universally used by home growers of flowers and vegetables, by truck-gardeners, by florists, by every grower of plants on a small or large scale. When used for transplanting they can be handled quickly and the construction permits removing easily if desired. They are ideal for rooting or shipping vegetable and flowering plants of any description. They are made from a tough, lasting, and water-proof paper and will not break in shipment or handling.

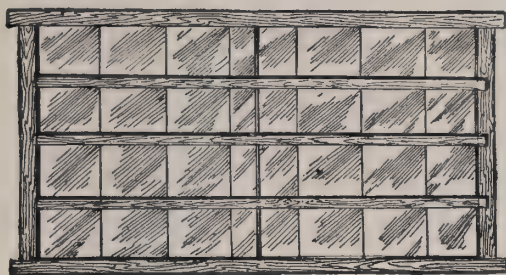
	25	Postpaid	100	Postpaid	1,000
2¼-in.....	\$0 25	\$0 35	\$0 50	\$0 65	\$3 60
3-in.....	30	40	75	90	4 50
4-in.....	35	45	1 00	1 25	7 25
6-in.....	50	65	1 50	1 80	12 50

Dobbins Eveready Power Sprayer

A portable light-weight spray outfit capable of handling all spray jobs for the small grower. Has capacity of 1½ gallons per minute at 250 pounds pressure. 25-gallon steel tank. Furnished with ⅜ h.p. engine, 12½ ft. of ⅜-in. hose and adjustable spray gun.

No. 3240. With Steel Wheels \$95. No. 3240R. With Pneumatic Tires \$103.50.





Metropolitan Hotbed Sash

Metropolitan Hotbed Sash are made from select quality air-dried Tidewater Gulf cypress, fabricated and finished on specially designed sash-making machines. All parts are mortised and tenoned to insure accurate, smooth, and tight-fitting joints. The sides are planed perfectly straight to prevent any open space between sash when laid on the frame. They are strictly a quality product.

- No. 13.** 3 ft. 2 in. x 7 ft. for 4 rows of 8-in. glass.....\$4 25
No. 18. 4 ft. x 6 ft. for 5 rows of 8-in. glass..... 4 45
 Above sash 1 1/4 inches thick with round iron cross-bar in center and with horns.
No. 8. 3 ft. 2 in. x 6 ft. for 4 rows of 8-in. glass.....\$2 75
 Above 1 3/8 inches thick, with horns and wood cross-bar.

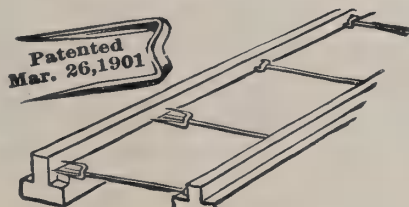
All Sash are unpainted and without glass at prices quoted. 5-sash lots, 15 cts. per sash less; 10-sash lots, 30 cts. per sash less. Special prices on larger quantities or other sizes of sash quoted on request.

Glass for Hotbed Sash

We carry in stock Lustra Glass, also Pennvernion Glass, both flat drawn and made by a new process.

- Per box
 6x 8, 150 lights, B, Single Strength.. \$4 85
 8x10, 90 lights, B, Single Strength.. 4 85
 10x12, 60 lights, B, Single Strength.. 4 85
 8x10, 90 lights, A, Single Strength.. 5 50

10 boxes and upward, 25 cts. per box less than above prices



Peerless Glazing Points

(Improved Van Reyper)

Used by all practical florists and market-gardeners for glazing hotbed sash. No. 1. For small, single-thick glass. No. 2. For large, single-thick glass. No. 2 1/2. For double-thick glass. All sizes, 75 cts. per lb., postpaid.

Zinc City Greenhouse Points. Made from pure zinc. 5/8-in. or 3/4-in., 1-lb. pkg. 65 cts.
Star Brand Triangle Glaziers Points. Zinc coated. No. 00 size, 1/2-lb. pkg. 20 cts.

Hydrofluoric Acid

Used for cleaning hotbed and greenhouse glass.

- 1 lb. in wax container.....\$1 25
 10 lbs. in lead jug..... 6 80
 115 lbs. in hard rubber drum.....32 00
 Allowance for lead jug, \$3.50, and hard rubber drum, \$15, when returned.

Densoplastic (Glazing Putty)

A scientifically formulated permanent, elastic, non-bleeding adhesive glazing Putty for glazing, reglazing, and repairing of hotbed sash and greenhouses. Can readily be removed with a putty knife, thus permitting the easy replacement of broken panes. COVERAGE: 300 lineal feet of bar per gal., with 3/8-in. nozzle.

Natural Color

1-gal. can.....	\$2 65
5-gal. pail.....	10 25
20-gal. drum.....	35 00
30-gal. drum.....	51 00
55-gal. drum.....	90 75

Black Color

5-gal. pail.....	\$8 50
20-gal. drum.....	29 00
30-gal. drum.....	42 00
55-gal. drum.....	74 25
Glazing Gun.....	4 00

Glazing Gun free with 55-gal. drums.

Denso-White (White Paint)

An exceptional white paint especially formulated to the proper consistency for cutting in around sash, making it particularly adaptable for the painting of hotbed sash and greenhouses. COVERAGE: 400 square feet per gallon, one coat.

1-gal. can.....	\$3 25
5-gal. pail.....	14 25
30-gal. drum.....	82 50
55-gal. drum.....	148 50



Hotbed Thermometer

No. 5981. Registers from 30° to 230° F. Has brass points. Length over all, 14 1/2 inches. \$3.50, postpaid.

Putty Bulb

A simple and useful device for applying putty or glazing compound to sash. \$1.25.

McKim Patent All-Steel Measures

Guaranteed U. S. Government Standard Capacity



	Each	Ppd.
1 qt.....	\$0 25	\$0 30
2 qts....	30	35
4 qts....	35	45
8 qts....	45	55
16 qts....	70	80
Per set (5 measures)	\$1.75; postpaid	
	\$1.95.	

Aeroil "Giant Twin" Lawn Burner

Sterilizes the soil to a depth of 3 inches



A sure, economical and safe method of killing weeds, seeds, roots, insects, and grubs in the soil.

Substantially built; portable; burns kerosene or light furnace oil. Will save its own cost in a very short period in labor savings alone. Descriptive circular on request. \$125, f.o.b. factory.

Felins Bunch Tyer

Bunch Vegetables, Cut-Flowers, and Small Nursery Stock can be tied ten times quicker.



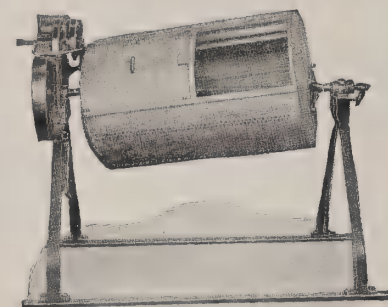
Foot Power

used in the shed or field.

Foot-power Model.....\$65 00
 Electric Model.....150 00

Felins Electric Root Washer

Clean Vegetables command better prices



A practical and durable Root Washer saves time; economical to operate and rinses as it washes. Slow motion of drum prevents damage to roots. Capacity of drum, 5 bushels. Will wash up to 60 bushels an hour. Has 1/4 H.P., 110-volt, AC motor. \$150.

Rubber Bands

Made from pure crepe rubber. For bunching vegetables. No. 10 (1 1/4 x 1/16 in.) or No. 12 (1 1/4 x 1/8 in.) in 1-lb. boxes, 75 cts. per lb.; 10-lb. lots, 65 cts. per lb.; 25-lb. lots, 60 cts. per lb. Celery Bands. No. 5C. (1 1/2 x 1/4 in.; red); in 1-lb. boxes, 10 cts. per lb. more.



Red Brand Fence proved itself "definitely superior to any competing Fence" in a scientifically conducted weather-test of 45 different makes and sizes of Fence from all leading manufacturers and mail-order houses.

Square Deal Fence has crimps in the line wires that give it an elastic tension and keep it tight and trim, regardless of temperature changes.

STAPLES. 1- or 1 1/4-inch. 6 cts. per lb.



Staples for poultry fence and poultry netting, 8 cts. per lb.

White Staggered Picket Fence

PROTECTION

BEAUTY

ECONOMY



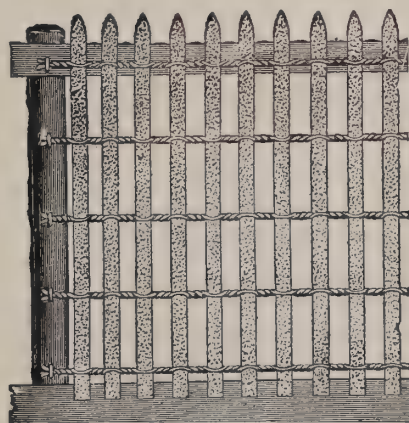
The staggered tops, the Gothic point pickets, and rich snow-white finish of this Fence combine to give unusual charm and beauty. Its closely spaced pickets shut out effectively even small intruders. The longer pickets are 42 inches high, medium pickets 39 inches, and short pickets 36 inches, woven together with four double wire cables. Pickets are smooth finished on all 4 sides. 50-foot roll, \$8.75. Cut lengths, 22 cts. per lineal foot.

Gate with metal frame to match, 42 inches high, \$3.75.

Quick-Set Border Fence

A very attractive and practical fencing for protecting flowerbeds. Curved top design made by using pickets of three lengths, 15 in., 16 $\frac{1}{4}$ in. and 18 in. Pickets surfaced 4 sides, painted white and woven between 2 wire cables. 25-ft. roll, \$2.75.

Combination Picket Fence



This popular Fence, for gardens, yards, vacant lots, etc., is made of hardwood pickets 1 $\frac{1}{2}$ inches wide, $\frac{1}{2}$ inch thick, and 4 feet long, woven together, 2 inches apart, with five cables of No. 12 $\frac{1}{2}$ heavy galvanized wire, pointed at top. Painted with a red mineral preservative, applied boiling hot which makes a very durable finish. Top rail and bottom board not necessary. Can also be used as a snow fence or for temporary corn-cribs. Easily put up and taken down.

50-foot roll, \$6.65; 100-foot roll, \$12.25. Cut lengths, 15 cts. per lineal foot.

Wire Cloth

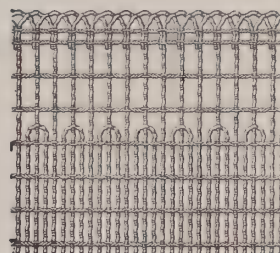
Used for a variety of purposes, including wire floors for poultry and chick pens. Made of copper-bearing wire galvanized after weaving.

1/2-in. mesh, No. 19 gauge, 36 in. wide			
100 lineal ft.	\$13 00	25 lineal ft.	\$4 00
50 lineal ft.	7 00	10 lineal ft.	1 75
3/4-in. mesh, No. 14 gauge, 36 in. wide			
100 lineal ft.	\$30 00	25 lineal ft.	\$8 00
50 lineal ft.	15 50	10 lineal ft.	3 50

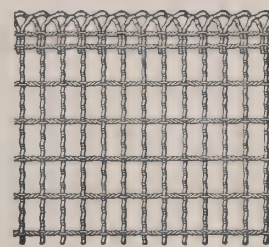
Welded Wire Fabric

Used extensively for making wire floors, batteries, etc., for poultry and turkeys. Electrically welded and galvanized.

1 x 2-in. mesh. Price per 100-ft. roll.	No. 14 gauge wire	No. 12 $\frac{1}{2}$ gauge wire
No. 1324. 24 in. wide, 13 bars.	\$7 65	\$11 10
No. 1630. 30 in. wide, 16 bars.	9 50	14 00
No. 1936. 36 in. wide, 19 bars.	11 40	16 50
No. 2548. 48 in. wide, 25 bars.	14 75	21 55
No. 3160. 60 in. wide, 31 bars.	18 50	26 50



Style "F" Cyclone



Style "L" Cyclone

Cyclone Lawn Fence

Makes beautiful home surroundings worth while

With Cyclone Fence enclosing your premises, you are more sure of success in your efforts to cultivate beautiful surroundings for your home. Flowers, lawns, gardens, trees, and shrubs have protection at all times against destructive outsiders. Cyclone Fence is woven in beautiful, symmetrical designs that are attractive and artistic, yet unobtrusive.

STYLE "F." The most popular ornamental fence for front yards, back yards or division fence. Pickets are of No. 9 heavy galvanized wire spaced 3 inches apart at top, 1 $\frac{3}{8}$ inches apart at the bottom. Cables spaced 6 inches apart, except the two top cables, which are spaced 2 $\frac{3}{8}$ inches apart. Illustrations show Style "F" Fencing and Cyclone Galvanized Walk Gate.

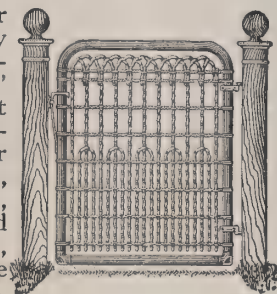
STYLE "L." A high-grade, moderately priced Fence. Specially adapted for back yards and division fencing. Pickets of No. 9 heavily galvanized wire are spaced 3 inches apart. Cables are of heavily galvanized wire spaced 6 inches apart, except the two top cables, which are spaced 2 $\frac{3}{8}$ inches apart.

	150-ft. rolls per lineal ft.	Cut lengths per lineal ft.
Style "F." 36 in. high	\$0 12 $\frac{1}{4}$	\$0 15
Style "F." 42 in. high	13 $\frac{1}{2}$	17
Style "F." 48 in. high	15 $\frac{1}{2}$	20
Style "L." 36 in. high	09	11
Style "L." 42 in. high	10	13
Style "L." 48 in. high	11 $\frac{1}{4}$	15

Both styles of Cyclone Lawn Fence furnished either in woven or electric welded fabric.

Cyclone Galvanized Walk Gates

A handsome and practical Gate for all home purposes. The frame is heavy tubular steel, 1 $\frac{1}{2}$ -inch diameter, galvanized, and covered with Style "F" Fabric. Gates are made for 3-foot openings, which means distance between posts with proper allowance for hinges and latch. **Prices:** 36 in. high, \$3.50; 42 in. high, \$3.75; 48 in. high, \$3.85. Prices include fixtures for wood posts. Fixtures for tubular steel posts, \$1 extra. If steel-post fixtures are wanted, give outside diameter of posts.



Cyclone Flower-Bed Border

Extensively used for paths and walks. Easily installed and will conform to any size or shape of flower-bed.

Is ordinarily used without supports but can be erected on any wood or steel support. Height 22 inches. Rolls, 150 feet, 7 cts. per lineal foot. Cut lengths, 9 cts. per lineal foot.

Cyclone "L-Extra" Trellis

A very durable and artistic support for climbing vines and flowers; harmonizes with home surroundings. Made of corrugated No. 11 galvanized wire, spaced 4 inches apart; cables are of No. 13 galvanized wire.

	150-foot rolls per lineal ft.	Cut lengths per lineal ft.
PRICES		
18-inch width	\$0 07	\$0 09
24-inch width	08 $\frac{1}{4}$	10
30-inch width	09 $\frac{1}{4}$	12



Special Barb Wire

Our Special Barb Wire is made of No. 14 galvanized, strong steel wire, and has a breaking strength of 1000 pounds. The barbs are short and humane.

Two-Point Cattle. Barbs about 5 inches apart.....\$2 50
Two-Point Hog. Barbs about 3 inches apart..... 2 65

Regular Barb Wire

Made from No. 12½-gauge galvanized wire. We can furnish in different styles as follows:

Two-Point Cattle. Barbs about 5 inches apart.....\$3 30
Two-Point Hog. Barbs about 3 inches apart..... 3 60
Four-Point Cattle. Barbs about 5 inches apart..... 3 55
Four-Point Hog. Barbs about 3 inches apart..... 3 95

If preferred we can furnish above in even weight 100-pound spools at \$3.90 per 100 pounds.

Galvanized Wire

No. 9. Plain. 1705 feet in 100 lbs....10-lb. coil 65 cts...\$4 15
No. 9. Coil Spring. 1705 feet in 100 lbs..... 4 25
No. 10. Plain. 2057 feet in 100 lbs..... 4 20
No. 11. Plain. 2582 feet in 100 lbs..... 4 25
No. 12. Plain. 3369 feet in 100 lbs....10-lb. coil 65 cts... 4 30
Special prices will be quoted on any of the above Wire in ton or half-ton lots

Fence Staples

Galvanized. 1 or 1¼-inch. Lb. 6 cts., 100-lb. keg \$4.60.
Polished. 1 or 1¼-inch. 100-lb. keg \$4.10.

Common Wire Nails

100-lb. keg 20d \$3.55, 10d \$3.60, 9d \$3.65, 8d \$3.70.

Prices on other sizes quoted on request. Prices subject to change without notice.

American Self-Fastening Angle Steel Fence Posts

These have been designed for general farm use where a light-weight post is desired. They are easy to handle, easy to drive, strong and serviceable, and are rolled from specially selected steel. Of sturdy angle shape, they will stand up and render years of satisfactory service. Self-fastening feature eliminates clamps and staples. The tongues are well formed and conveniently placed 2 inches apart. Fence wire or wire fabric can be fastened securely just where you want it. They are 1¼ x 1¼ x ⅝ inches, painted a rich maroon color and equipped with patented slit-wing type of anchor.

	Weight each	100 or more Each	100 or more Each
5 ft.	6.20 lbs.....	\$0 35	\$0 32
6 ft.	7.32 lbs.....	40	37
6½ ft.	7.88 lbs.....	43	40
7 ft.	8.44 lbs.....	46	43
7½ ft.	9.00 lbs.....	49	46
8 ft.	9.56 lbs.....	51	48

Royal Blue Wire Stretcher

A first-class roller-bearing Stretcher having large sheaves, each revolving on ten hardened steel bearings. Made entirely of best grade of steel and malleable iron. Reeved with 16 feet best quality of ⅝-inch rope. Wire grasps are positive and hold the wire firmly. The new swiveling features at top and bottom are a great convenience when using as a hoist or handling "twisty wire." Can be used as a hoist up to 1,000 pounds capacity. \$1.90.



American Galvanized Steel Fence Posts

American Posts are hot galvanized after forming, insuring a heavy protective covering inside and out. The Line Posts are a straight cylinder 1¼ inches in diameter made of 14½-gauge metal. Tongues are placed 1½ inches apart and may be bent up or down to hold fence wire. They are easy to drive and when driven under ordinary soil-conditions the base of the post expands so that sufficient anchorage is provided. They are strong and durable and make a neat and attractive appearance.



Galvanized Line Posts

	Each
6-foot; weight 9.1 lbs.....	\$0 71
6½-foot; weight 9.85 lbs.....	76
7-foot; weight 10.61 lbs.....	82
7½-foot; weight 11.36 lbs.....	88
8-foot; weight 12.12 lbs.....	94

Galvanized End and Corner Posts

Made of No. 13½ gauge steel galvanized after forming. Top and bottom diameter 1¾ inches. The end or gate post has one brace, the corner post has two braces. Shipped complete with all fittings. Designed to be set in concrete.

	Each
End or Gate Posts. 6-foot; weight 19 lbs.....	\$1 85
7-foot; weight 22.5 lbs.....	2 15
8-foot; weight 25.7 lbs.....	2 40
Corner Posts. 6-foot; weight 28.8 lbs.....	2 70
7-foot; weight 33.7 lbs.....	3 10
8-foot; weight 38.5 lbs.....	3 50

Extras

	Each
Ornamental Tops. For any of the above Posts ..	\$0 20
Driving Caps. For Line Posts	50

American T Steel Fence Posts

These Posts outlast three ordinary wood posts. No holes to dig—no setting—no tamping. Drive over 300 in a day.

Built like a railroad rail—the strongest form of fence-post construction known.

With their large split-wing patented anchor plates will root firmly into the ground as driven and hold the fence securely in line.

A continuous series of lugs are rolled along both sides of the face of the post and spaced every ¾ inch.

Banner Posts are finished with a heavy coat of a special steel paint, with unusually high preservative qualities, that is baked on under a high temperature.

Fence wire is fastened with special hump clamps which are easily attached. The clamps come formed to fit snugly around the post. Just place them in position and bend arm back over stem of post. An ordinary pair of pliers or a hammer will do the trick. Seven clamps furnished free with each post. No staples to buy.

	Weight each	Each	100 or more Each
5 ft.	7.32 lbs.....	\$0 41	\$0 37
6 ft.	8.65 lbs.....	48	44
6½ ft.	9.32 lbs.....	51	47
7 ft.	9.98 lbs.....	54	50
7½ ft.	10.65 lbs.....	58	54
8 ft.	11.31 lbs.....	61	57



Scott's Better Seeds

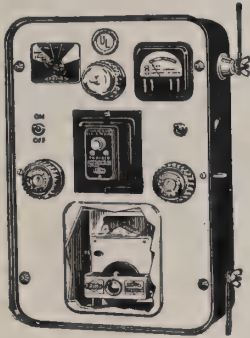
The prudent man buys the very best and cleanest seed his money can buy. He gladly pays the little extra it costs him, and what does that little extra cost of seed amount to, compared to the value of the extra crop it is going to grow.

PRIME ELECTRIC FENCE CONTROLLERS

Highline



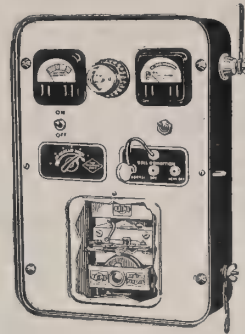
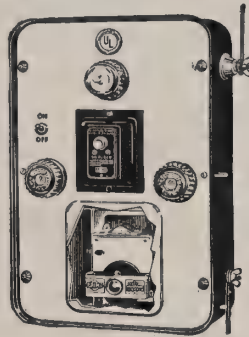
Models



No. 420 Champion. Identical with No. 480 except that it does not have Short Meter or Soil Condition Switch. A safe, dependable Controller that will give you years of trouble-free service. Approved by Underwriters' Laboratories. \$29.50.

Now you can fence from the high-line with complete safety—with a Prime Highline Controller approved by the Underwriters' Laboratories.

No. 480 Grand Champion. The last word in electric fencing—the finest Controller money can buy. Complete with all features necessary to hold *all* of your livestock, *all* of the time, *all* over the farm. Approved by Underwriters' Laboratories. \$39.50.

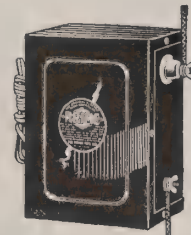


No. 680 Grand Champion. "Tops" in battery fencing. A safe, dependable Controller that does the same effective jog from a battery that the No. 480 does from the highline. \$39.50.

No. 630 Champion. Identical with No. 680 except that it does not have Short Meter or Super-Charger. \$29.50.



No. 330. Standard
Price \$14.95



No. 200. Special
Price \$9.95

Write For Complete
Catalogue

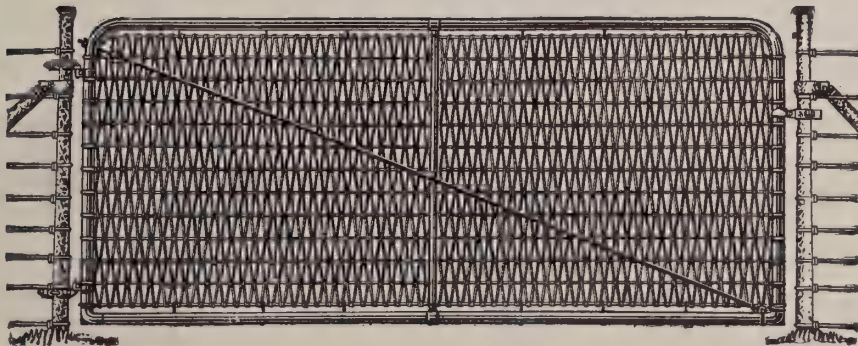
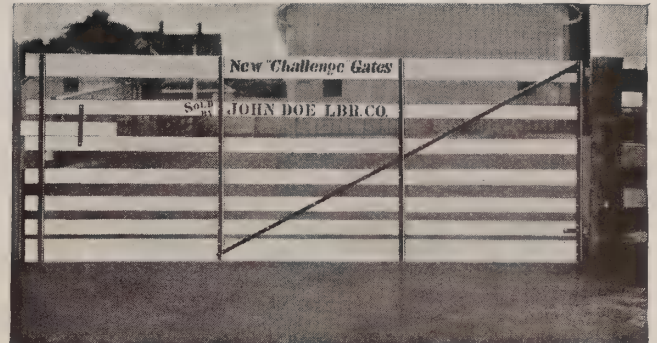
No. 720 Field King. Portable outdoor model, weather-proof cabinet, room for "storage" battery. \$44.50.

No. 255 Battery Cabinet. Makes outdoor models of No. 330 and No. 200. Room for "hot-shot" battery. \$2.50.

New Challenge Gate

The construction is a combination of wood and steel, the most efficient and popular ever used for farm gates. Made of 6-inch top and bottom boards and five 4-inch intermediate boards, all rigidly bolted between a trussed frame of 4 pairs of angle steel uprights (3 pairs used on 10-foot gates). Boards are painted two coats deep orange, steel parts jet-black. You can't build or buy a better gate at a price so low. Furnished with hinges for wood posts. 52 in. high. 10 ft. long, \$7; 12 ft. \$8.15; 14 ft. \$8.95; 16 ft. \$10.

Gate Steels. Consists of 4 pairs of Angle Steel Uprights, Hinges, Bolts, and everything necessary except the boards to build a gate made of five 6-inch boards. \$4.75.



American Single Drive Gates

With galvanized tubular steel frame, filled with a 2-in. diamond mesh galvanized fabric which is unclimbable

A strong, non-climbable, and economical farm Gate. Universally recognized for its simplicity and durability. In addition to upright tubular brace the frame is supported by a diagonal brace rod which keeps it firm and prevents sagging.

PRICES

	Each
For 10-ft. opening, 42 in. high; weight 54 lbs. . .	\$9 70
For 10-ft. opening, 50 in. high; weight 59 lbs. . .	10 40
For 10-ft. opening, 58 in. high; weight 64 lbs. . .	11 20
For 12-ft. opening, 42 in. high; weight 62 lbs. . .	10 90
For 12-ft. opening, 50 in. high; weight 68 lbs. . .	11 75
For 12-ft. opening, 58 in. high; weight 73 lbs. . .	12 70

Above prices include fixtures for wood posts. For fixtures for steel posts, add 75 cts.



National Single Wire Stretcher

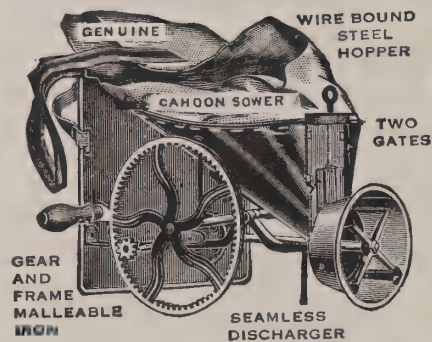
Made of malleable iron. Grips firmly and easily hooks over any style of steel or wood post. It is just what you want for stretching barbed and plain wire. \$1, postage 15 cts. extra.

The Townsend Wire Stretcher



Stretches plain wire or barbed wire. A very substantial and durable tool. For Wood Post use, \$2; for Steel Post use, \$2.10.

The Cahoon Seeder



The Cahoon Hand Broadcast Seed Sower, suitable for sowing all kinds of grain and grass seed, is one of the most efficient on the market today. Made almost entirely of iron and steel and having no complicated parts to get out of order, it will last and give perfect satisfaction for many years. A very dependable and durable machine. It will sow 4 to 8 acres an hour. The bag is of heavy duck and

holds about 22 quarts. Price, \$5.50, postpaid.

The Cyclone Seed Sower

This Seed Sower can be used for sowing clover, timothy, lawn grass seed, and all other seeds that can be sown broadcast. It is easy to operate and made of the best materials. Has positive force-feed and is quickly adjusted for different seeds. The touch of a lever will start or stop the flow of seed. Seed cannot clog or rush. Container is made of heavy canvas ducking and holds about $\frac{1}{2}$ bushel. Price, \$2.50, postpaid.

Cyclone Combination Fertilizer and Seed Sower. Made with extra-heavy gears and brass bushed bearings for hard service and long wear. Will broadcast granular fertilizers at from 100 to 300 pounds per acre in a strip a rod wide as fast as a man can walk. Will also broadcast all kinds of seed perfectly in desired quantity per acre. Price, \$3.75, postpaid.



Truckee Pattern

Wood-Chopper's Wedge

No. 82. Round head; Truckee Pattern. 3-lb. 55 cts. each; 4-lb. 65 cts.; 5-lb. 75 cts.

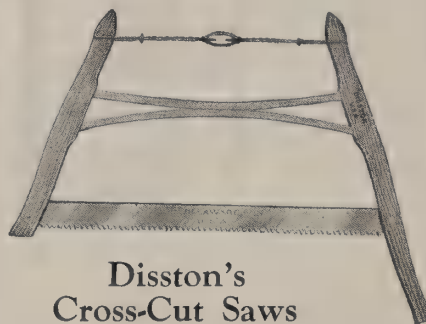
Planet Jr. No. 230A Fertilizer Distributor and Cultivator



A new and highly recommended method of applying fertilizer to growing crops is to distribute it uniformly on the ground between the rows and then to cultivate it thoroughly into the soil. This insures all the feeder roots growing in the middle of the row

getting their share of food. It distributes the fertilizer through six adjustable spouts, spreading from 4 to 30 inches on the ground. Cultivator closes to 12 inches and opens to 21 inches. The quantity of fertilizer can be regulated from 200 to 2,000 pounds per acre. It has two wheels and is intended for use with one horse. Capacity of hopper, about 100 lbs. Price, \$42.

Planet Jr. No. 220 Fertilizer Distributor. A hand machine similar to the No. 230A illustrated above, except it has a single wheel and does not have the cultivating attachment. Capacity of hopper, 50 lbs. Price, \$28.75.



No. 333. Disston Wood Saw

Hardwood frame, double braced, 30-inch Champion tooth blade. Painted red. \$1.75, postage extra 15 cts.

Disston's Cross-Cut Saws

No. 254. Two-man. Has two cutting teeth to one raker; width of blade, $3\frac{1}{4}$ in. Furnished with handles. Price, 5-ft. blade, \$3.60; 5 $\frac{1}{2}$ -ft. blade, \$3.85; 6-ft. blade, \$4.25.

No. 554. One-man. Has two cutting teeth to one raker. With supplementary handle. Price, 3-ft. blade, \$3.25; 3 $\frac{1}{2}$ -ft. blade, \$3.85.

POST-HOLE DIGGERS

Standard Earth Augers

Standard Earth Augers are "standard" because they will do the most work in the shortest time with the least labor, and are made of the highest grade material. It is the only Auger made having movable blades which open to discharge contents. Will dump sticky clay with ease. Can be instantly adjusted to bore many different-sized holes. In fact, it has no equal for any kind of earth-boring. It bores seven different-sized holes—8, 9, 10, 11, 12, 13, and 14 inches in diameter and 3 $\frac{1}{2}$ feet deep. The stem can be fitted with pipe extension to bore extra-deep holes or wells. \$5.60 each, postpaid.

Universal Post-Hole Digger

The best and most popular Digger on the market. Has high carbon steel blades. Will dig a hole 34 inches deep. Length overall, 4 ft. 10 in. No. 1. \$3.

Perfection Post-Hole Digger

Works in all kinds of soil, dry sand, gravel, shale, etc. Blades and shanks forged from one-piece high carbon steel. Handle, 48 in. long. No. 34. \$1.65.



Open Closed
Universal



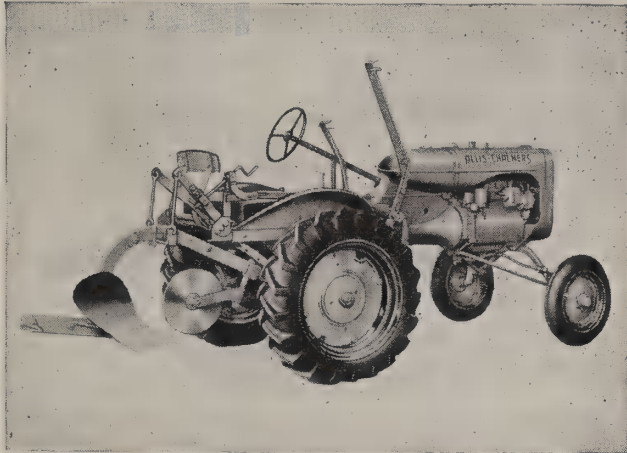
Tamping Head Steel Digger

All-steel, long and wide cutting blade with large tamping head made of 1-inch round steel; length over all 5 feet, 9 inches. \$2.85 each.



Perfection Standard

Freedom—The Allis-Chalmers Way



MODEL "B" WITH PICK-UP PLOW

Allis-Chalmers Model "B"

A modern farm Tractor engineered for economy, cutting down fuel bills, and giving you more power for every dollar.

A Tractor new in design, new in size, new in power, new in performance, and built to meet the needs of the small-acreage farm. Does the work of four horses, costs less to buy and less to operate. It is easy to handle and gives amazing performance.

The Allis-Chalmers Model "B" is built to serve you, does plowing, discing, seeding, cultivating, mowing, and many other jobs. Will operate power take-off implements, grind feed, or fill silo.

It is powered with valve-in-head engine of modern big tractor design, has removable cylinder sleeves, effective dirt protection, magneto ignition for easy starting, pressure lubrication, precision construction, and other advantages.

Four-cylinder engine, $3\frac{1}{4}$ -inch bore, $3\frac{1}{2}$ -inch stroke, water-cooled motor, variable speed governor, three speeds forward—low, $2\frac{1}{2}$ M.P.H.; second, 4 M.P.H.; high, $7\frac{3}{4}$ M.P.H. Reverse, 2 M.P.H. Pneumatic tires; rear-wheel turning brakes; and cushion seat are standard equipment. Choice of either hand or hydraulic power lift for implements. Starter and lights available at additional cost.

"B" Model Tractor, \$548.00, delivered

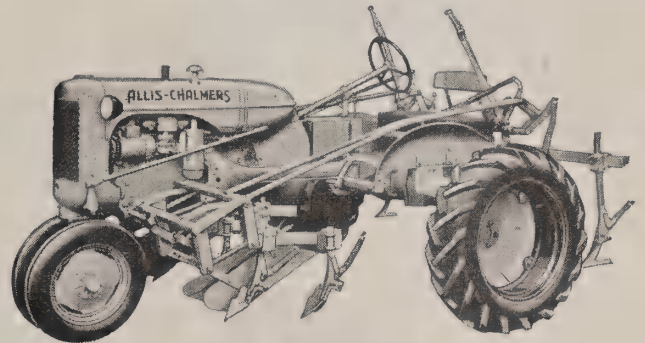
Allis-Chalmers Model "C"

A new, streamlined, general-purpose type Tractor for small and medium-size family-operated farms. Also a handy auxiliary Tractor for larger farms. Powered to handle one 16-inch moldboard plow at customary plowing depths in average soil and ground conditions, and designed for two-row cultivation.

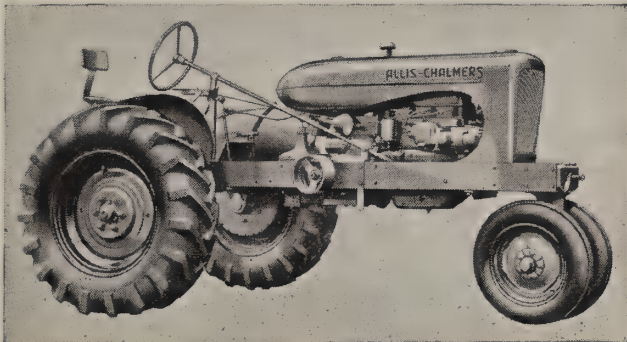
This low-priced Tractor possesses more modern engineering and convenience features than any other Tractor in its type and power class. It comes regularly equipped with lights, starter, rubber tires, radiator shutters, thermostat and comfortable cushioned seat. There is not a single grease fitting on the Tractor. All friction points operate in sealed reservoirs, which are packed in grease at the factory. Repacking is necessary only at long intervals, and in some cases not at all. Daily greasing is eliminated.

Extras include a power take-off and belt pulley attachment, and your choice of either a hand or hydraulic power lift for implements. One lift unit serves for all tractor-mounted implements except the mower, which comes equipped with its own lift. The tractor-mounted implements available include a single-bottom pick-up plow; a two-way pick-up plow; a two-row cultivator for wide-spaced row crops; a four-row cultivator for vegetables and narrow-spaced row crops; and a mower attachment.

"C" Model Tractor, \$625.00, delivered



MODEL "C"



MODEL "WC"

Allis-Chalmers Model "WC"

Allis-Chalmers Tractors are built in many different sizes and types for many purposes. The Model "WC" meets the needs of those that require a Tractor for doing harder work.

Every month of the year has jobs that the Allis-Chalmers Tractor can handle. In the field it plows, prepares your seed-bed, drills, cultivates, and harvests at economical speeds. On the belt its sensitive governor assures smooth, steady abundant power for grinding, threshing, baling, or silo filling. On the road, loads are hauled and handled with ease.

The engine is simple, compact, and sturdy—skillfully balanced to the weight and design of the Tractor. Embodies features that insure complete protection of all working parts against dust or dirt.

Four-cylinder engine, valve-in-head; 4-inch bore, 4-inch stroke; governor; removable cylinder sleeves; inserted valve-seats; fuel-, oil-, and air-cleaners. Self starter and lights, regular equipment. Four speeds forward: Low, $2\frac{1}{2}$ M.P.H.; second, $3\frac{1}{2}$ M.P.H.; third, $4\frac{3}{4}$ M.P.H.; high, 9 or more M.P.H. Reverse, 2 M.P.H. Can be equipped with either steel wheels or pneumatic tires.

Prices on request

DO MORE WORK LESS Use an Allis-Chalmers

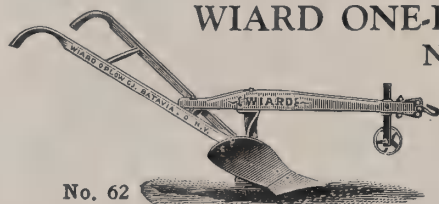
Come in and see these Tractors or write for descriptive Catalogue and prices

Agricultural Implements

WIARD PLOWS

WIARD ONE-HORSE PLOWS

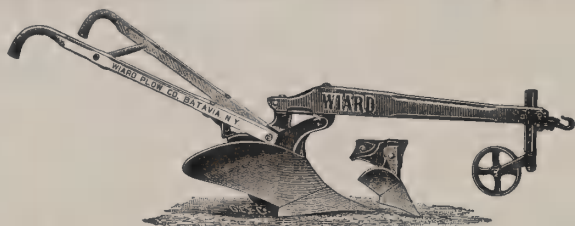
No. 62. Right-Hand



No. 62

The smallest Wood Beam Wiard Plow. Capacity, 3 to 5 inches deep, 6 to 8 inches wide. Weight, 40 pounds. Plain, \$8.50; wheel, \$1.50 extra.

No. 13. Right-Hand. A medium-sized one-horse Plow adapted to all soils. (Not illustrated.) Capacity, 4 to 6 inches deep, 6 to 9 inches wide. Weight, 52 pounds. Plain, \$10; wheel, \$1.50 extra.



No. 10C. Right-Hand

Has adjustable beam so that the horse can walk in the furrow or on the land. Capacity, 4 to 7 inches deep, 6 to 11 inches wide. Weight, 77 pounds. Plain, \$14.25; wheel, \$1.50 extra; jointer \$3.25 extra.

WIARD TWO-HORSE PLOWS



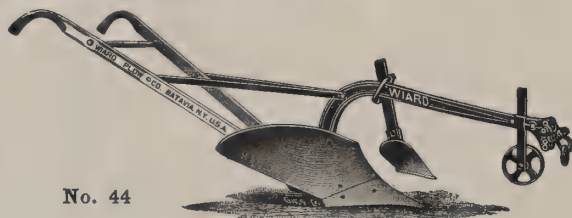
No. 26 1/2

Wood-Beam Plows

No. 27. Left-Hand. Capacity, 6 to 8 inches deep, 10 to 14 inches wide. Weight, 105 pounds. Plain, \$21; wheel, \$1.50 extra; jointer, \$4 extra; steel moldboard, \$1.50 extra.

No. 28. Left-Hand. Capacity, 7 to 9 inches deep, 12 to 16 inches wide. Weight, 112 pounds. Add \$1 to prices of No. 27.

No. 26 1/2. Right-Hand. Capacity, 5 to 8 inches deep, 10 to 14 inches wide. Weight, 115 pounds. Plain, \$21; wheel, \$1.50 extra; jointer, \$4 extra; steel moldboard, \$1.50 extra.



No. 44

Steel-Beam Plows

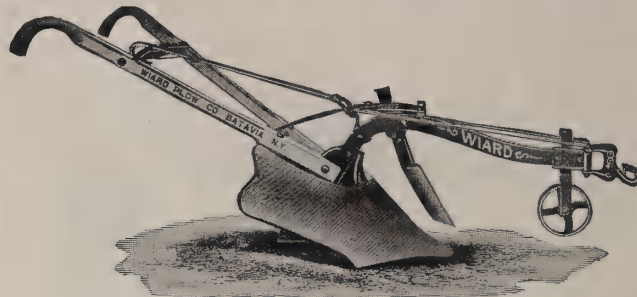
No. 103. Left-Hand. Two-horse. Capacity, 4 to 7 inches deep, 9 to 13 inches wide. Weight, 120 pounds. Plain, \$20; wheel, \$1.50 extra; jointer, \$4 extra; steel moldboard, \$1.50 extra.

No. 104. Left-Hand. Two- or three-horse. Capacity, 5 to 8 inches deep, 11 to 15 inches wide. Weight, 130 pounds. Plain, \$22; wheel, \$1.50 extra; jointer, \$4 extra; steel moldboard, \$1.50 extra.

No. 43. Right-Hand. Same capacity, size, and price as No. 103.

No. 44. Right-Hand. Same capacity, size, and price as No. 104.

WIARD STEEL-BEAM SWIVEL PLOWS



No. 120. Two-Horse. Capacity, 5 to 8 inches deep, 10 to 13 inches wide. Weight, 118 pounds. Plain, \$21.75; adjustable clevis, \$1.30 extra; wheel, \$1.50 extra; jointer, \$4 extra; colter, \$3.50 extra; steel moldboard, \$1.50 extra.

No. 126. Two-Horse. Capacity, 5 to 8 inches deep, 12 to 15 inches wide. Weight, 139 pounds. Add 50 cts. to prices of No. 120.

WIARD WOOD-BEAM SWIVEL PLOWS



No. 21. One-Horse. Capacity, 4 to 7 inches deep, 6 to 10 inches wide. Weight, 77 pounds. Plain, \$13.50; wheel, \$1.50 extra; steel moldboard, \$1.50 extra.



No. 140. Two-Horse Swivel Plow

The cut shows Plow with adjustable clevis and jointer. Capacity, 5 to 8 inches deep, 10 to 13 inches wide.

Weight, 115 pounds. Plain, \$20.50; adjustable clevis, \$1.30 extra; wheel, \$1.50 extra; jointer, \$4 extra; colter, \$3.50 extra; steel moldboard, \$1.50 extra.



No. 130X. Two-Horse Swivel Plow

Capacity, 5 to 8 inches deep, 10 to 13 inches wide. Weight, 104 pounds. Plain, \$19; adjustable clevis, \$1.30 extra; wheel, \$1.50 extra; steel moldboard, \$1.50 extra.

Wiard Plows have been manufactured continuously since 1804. They are strongly constructed and are recognized as leaders in this class of agricultural implements.

OLIVER CHILLED PLOWS

The Oliver Chilled Plows need no introduction to the Pennsylvania farmer. We have space to show but a few of the leading favorites among Pennsylvania farmers, but will send a complete catalogue on request. A full line of genuine Oliver repairs always in stock.

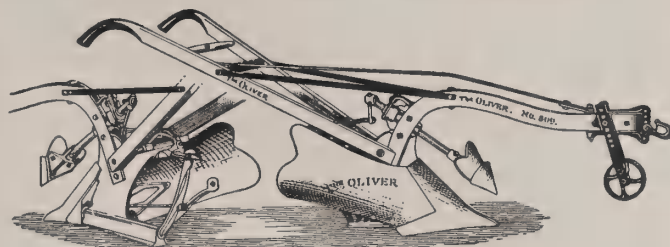
No. 40N Wood-Beam, Full Chilled, Right- and Left-Hand



This is the veteran Plow of the Oliver line and for many years it has been familiar to a majority of the farmers in America. Its great capacity, steady running and turning qualities, make it valuable in sandy or alluvial lands, and on farms containing a variety of soils. It will turn a furrow 9 x 16 inches. Weight of Wood-Beam, 138 lbs.; Steel-Beam, 157 lbs.

Price, Wood- or Steel-Beam, Plain, \$20.35. For Wood-Beam, Wheel extra \$2.40; Jointer extra \$3.75. For Steel-Beam, Wheel extra \$2.25; Jointer extra \$4.75.

Oliver No. 513 Hillside, Steel-Beam Plow



This Plow has a distinctive design to the moldboard. It is recommended for conditions where scouring is difficult—the moldboard being short and with sufficient curvature to effectively turn the soil. It is well adapted for plowing sod as well as stubble. Chilled bottoms, trussed steel beam, strong wood handles make this a very serviceable Plow. Bottoms are long, insuring steadiness and ease of handling. Capacity, 8 x 15 inches. Weight, 160 lbs. Price, Plain, \$25; Wheel extra \$1.65; Jointer extra \$3.30.

Prices of other Oliver Chilled Plows

No.	Beam	Hand	Capacity inches	Weight lbs.	Plain	Wheel Extra	Jointer Extra	No.	Beam	Hand	Capacity inches	Weight lbs.	Plain	Wheel Extra	Jointer Extra
BN.	Wood	Right	5 x 10	71	\$12 10	\$1 65	\$3 30	84.	Steel	Right or Left	8 x 16	158	\$23 50	\$2 25	\$4 75
10N.	Wood	Right	5½ x 11	74	13 75	1 65	3 30	153.	Trussed Steel	Hillside	5 x 8	70	14 45	1 65	
E1N.	Wood	Right or Left	7 x 14	132	20 35	2 40	3 75	512.	Trussed Steel	Hillside	8 x 13	139	23 50	1 65	3 30
83N.	Steel	Right or Left	7 x 14	146	21 50	2 25	4 75								

SPECIAL CIRCULARS ON ANY OF ABOVE PLOWS MAILED ON REQUEST

Vulcan Chilled Plows

The Vulcan Chilled Plow has been manufactured for more than a half century and is considered by many users as the best Chilled Plow manufactured. They are equipped with ribbed moldboards, which act as strengthening braces, and corrugated points, which it is claimed will outwear ordinary points and also hold a cutting edge a greater length of time.

No.	Beam	Hand	Capacity inches	Weight lbs.	Plain	Wheel Extra	Jointer Extra	No.	Beam	Hand	Capacity inches	Weight lbs.	Plain	Wheel Extra	Jointer Extra
No. 13.	Wood	Right or Left	8 x 13	127	\$18 70	\$1 65	\$4 00	No. 14.	Steel	Right or Left	8 x 14	155	\$18 70	\$1 65	\$4 60
No. 14.	Wood	Right or Left	8 x 14	135	19 75	1 65	4 00	No. 10.	Steel	Hillside	7 x 10	112	16 15	1 65	5 00
No. 13.	Steel	Right or Left	8 x 13	145	18 25	1 65	4 60	No. 12.	Steel	Hillside	8 x 12	143	18 70	1 65	5 00

Wiard Road or Contractor's Plows



for all-round work. Weight, 315 lbs. Price, with steel beam and forged steel point, \$67. (Shoe for end of beam included at prices quoted on all Plows.)

No. 64. A light Plow intended for road-repair work. It has excellent turning qualities and will hang to the ground on a hard and difficult job. Weight, 160 pounds. Price, with steel beam, shoe and forged steel point, \$40.50.

No. 65. A medium-weight Plow intended for general contracting work. Weight, 200 pounds. Price, with cast-iron beam, cast-iron point, \$32; with forged steel point, \$37. No. 65, with steel beam and forged steel point, \$51.25.

No. 69. Intended for use with either animal power, tractor, or road-roller. For all road or contractors' work—for tearing up cobble-stones and macadam—it can be used as a rooter Plow by simply removing the steel wing below the moldboard—thus making a two-in-one Plow

Wiard Tractor Plows

TWO BOTTOM OR SINGLE BOTTOM

This Plow is constructed with an idea to simplicity, efficiency, and strength. The number of parts has been reduced to a minimum, knowing that with few parts making all necessary adjustments a standard of desirability in Plow construction has been attained. Ease of draft, smoothness of furrow, and durability of Plow are unexcelled. There is a good easy turn to the moldboard but it puts the furrow over, covering all vegetation, manure, or trash of any kind.

The Plow is equipped with safety-spring trip-hitch, assuring safety to Plow, Tractor, and operator. Operating levers are easily reached from the Tractor seat and adjustment made without difficulty with one hand while plowing. Weight of two bottom Plows, 650 lbs.; weight of single bottom Plow, 485 lbs.

PRICES

No. 232. Two Bottom; capacity, 24 to 28 inches wide, 5 to 9 inches deep With chilled bottoms, combined rolling colters and jointers. \$102 50
For steel moldboards instead of chilled, add..... 3 00
For jointers instead of combined rolling colters and jointers, deduct..... 8 35



No. 132. Single Bottom; capacity, 16 to 18 inches wide, 6 to 10 in. deep With chilled bottom, combined rolling colter and jointer.... \$87 00
For steel moldboards instead of chilled, add..... 1 50
For jointer instead of combined rolling colter and jointer, deduct..... 4 20

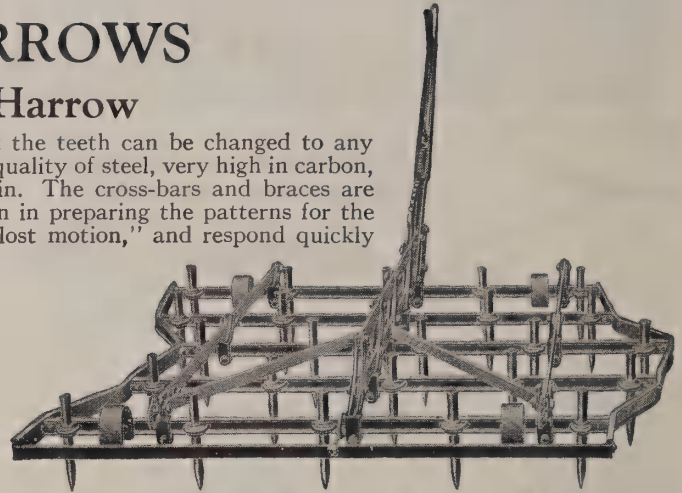
SPIKE TOOTH HARROWS

"Columbian" Steel Lever Harrow

The Columbian Harrow is made with lever adjustment, so that the teeth can be changed to any slope quickly. The main-bars are U-shaped, and made from an extra quality of steel, very high in carbon, which insures it against bending, even under the most severe strain. The cross-bars and braces are rolled flat from same kind of material. Great pains have been taken in preparing the patterns for the different parts, so that when put together they will be free from "lost motion," and respond quickly to the action of the lever.

The tooth-clamp is without doubt the best yet devised and consists of stirrup bolt and back and front boxing. When fastened with this device, the teeth would not be more rigid if a part of the bar itself. Teeth can be raised or lowered any distance. Furnished with $\frac{1}{8}$ -inch teeth. It is securely braced and nicely finished.

		Weight	Width	Price
25-tooth	1 Section	110 lbs.	4 ft.....	\$13 25
50-tooth	2 Sections	250 lbs.	8 ft.....	24 25
60-tooth	2 Sections	280 lbs.	10 ft.....	26 75
90-tooth	3 Sections	425 lbs.	15 ft.....	41 50
120-tooth	4 Sections	565 lbs.	20 ft.....	56 50



Showing 25-tooth Section of Columbian Harrow

SPRING TOOTH HARROWS

Iron City Pipe Bar Lever Harrow

The Iron City Spring-Tooth Steel-Frame Lever Harrow shown here represents one of the most popular types of this class of Harrows.

The Iron City has angle steel frame, runner style, and the front of the Harrow is constructed with a view to prevent the gathering of trash.

Renewable steel shoes are bolted to the under side of all frame angles, and can be replaced at moderate expense.

The tooth bars are steel pipe, to which the teeth are bolted and held securely with the assistance of spanner clips. All teeth are carefully tested before shipment and are guaranteed against defects.

		Weight	Width	Price
15-tooth	2 Sections	225 lbs.	5 ft. 4 in.....	\$25 25
17-tooth	2 Sections	240 lbs.	6 ft. 0 in.....	26 75
23-tooth	3 Sections	347 lbs.	8 ft. 2 in.....	37 50
25-tooth	3 Sections	362 lbs.	8 ft. 6 in.....	39 50



17-Tooth Iron City Lever Harrow

Pittsburgh Perry Wood-Frame Harrow

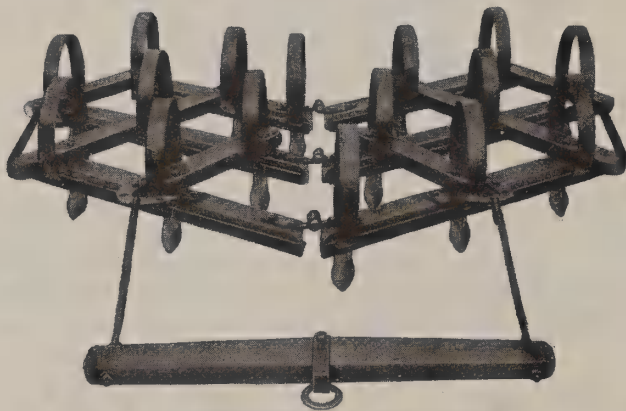
Steel Lined, Guarded, Protected Bolt Heads,
Perfect Tooth Seat, Adjustable Hitch

The best Wood-Frame Harrow on the market. Beams full 3 inches; linings $\frac{1}{8}$ -inch angle steel; bolts $\frac{3}{8}$ -inch; teeth are full length and weight, tempered in oil and fully warranted; our tooth fasteners are channel steel. Steel braces support and strengthen the outer end of the Harrow.

These Harrows are well made of best oak and hinged properly so that they will not buckle in the middle, but ride evenly, pulling all teeth in the ground at about an even depth.

Teeth are made from open-hearth, high-carbon spring steel, oil-tempered and tested.

		Weight	Width	Price
16-tooth	2 Sections	190 lbs.	5 ft. 3 in.....	\$19 00
18-tooth	2 Sections	210 lbs.	5 ft. 11 in.....	20 75
20-tooth	2 Sections	237 lbs.	6 ft. 7 in.....	22 00
22-tooth	2 Sections	261 lbs.	7 ft. 4 in.....	26 50
24-tooth	2 Sections	280 lbs.	8 ft. 1 in.....	29 00



16-Tooth Pittsburgh Perry Harrow

Columbus Steel Drag Scraper

The most economical tool made for making and mending roads. The Columbus is the highest type of Drag Scraper made. The bowls are stamped from a single sheet of extra hard steel plate and are of seamless construction throughout. The round-top handles are a distinguishing feature. The bails are of steel and of improved pattern, with strong and perfectly working swivels.

No. 1. Approximate capacity 7 cubic feet. Size of bowl: length over all 32 $\frac{1}{2}$ inches; width 33 inches; greatest depth 10 $\frac{1}{2}$ inches; weight 105 pounds. With runners, \$11.

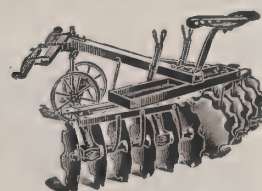
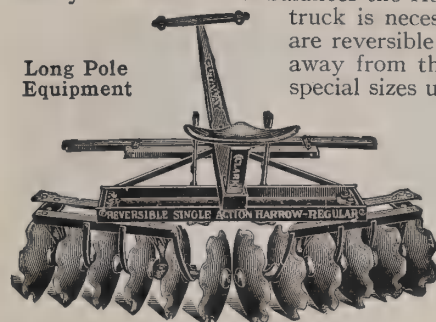
No. 2. Approximate capacity 5 cubic feet. Size of bowl: length over all 30 $\frac{1}{2}$ inches; width 29 $\frac{1}{2}$ inches; greatest depth 10 $\frac{1}{2}$ inches; weight 95 pounds. With runners, \$10.50.



Clark "CUTAWAY" Reversible Single-Action Harrow

The head is built directly on top of the gangs of discs; the weight of the frame and of the driver is carried by the discs. This balances the Harrow with practically no weight on the horses' necks so no tongue truck is necessary. However, tongue truck can be furnished if desired. Gangs are reversible; this enables the orchardist to throw the soil toward the trees or away from them. Extension-head Harrow can be closed for regular fieldwork; special sizes up to 14 feet wide. Write for circular.

Long Pole Equipment



Tongue Truck Equipment

REGULAR HEAD

		Hitch	Width cut	Weight	Price
10	16-in. discs,	2-horse,	5 ft.	290 lbs.	\$53 60
12	16-in. discs,	3-horse,	6 ft.	340 lbs.	59 80
10	18-in. discs,	2-horse,	5 ft.	345 lbs.	58 60
12	18-in. discs,	3-horse,	6 ft.	425 lbs.	68 00

EXTENSION HEAD

		Hitch	Width cut	Weight	Price
7 ft.	315 lbs.				\$56 00
8 ft.	390 lbs.				64 50
7 ft.	380 lbs.				62 00
8 ft.	455 lbs.				73 00

If Tongue Truck is wanted instead of the Long Pole, add \$9.35 to above prices.
If both Tongue Truck and Long Pole are wanted, add \$11 to above prices.

"Cutaway" Baby Cultivator

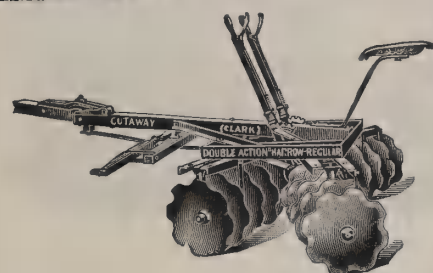
A light, sturdy, one-horse disc Cultivator with 14-inch discs spaced 4 inches apart, for fine work. Gangs are reversible so soil may be thrown toward the row or away from it. Adjustable wheel and handles. Ideal for berries, young trees, and field crops.



	Width cut	Weight	Price
6 14-in. discs	24 in.	90 lbs.	\$25 50
8 14-in. discs	32 in.	105 lbs.	29 50

Clark "CUTAWAY" Double-Action Disc Harrow

Rigid main frame makes this harrow self-supporting, eliminates need for a tongue truck, and makes possible a closer hitch with consequent lighter draft. Rear discs always cut halfway between front discs and at same depth, cutting and pulverizing every inch of ground and leaving it level.

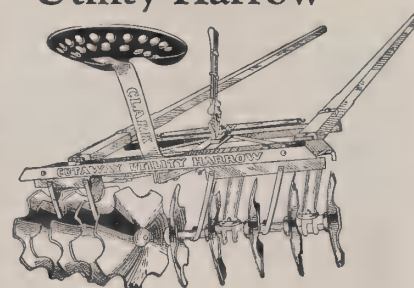


	Hitch	Width cut	Weight	Price
16 16-in. discs,	2-horse,	4½ ft.	440 lbs.	\$81 00
20 16-in. discs,	3-horse,	5½ ft.	555 lbs.	96 50
24 16-in. discs,	4-horse,	6½ ft.	630 lbs.	107 50

If two-horse hitch is wanted in place of three, or three-horse hitch in place of four, deduct \$2 from the above prices.

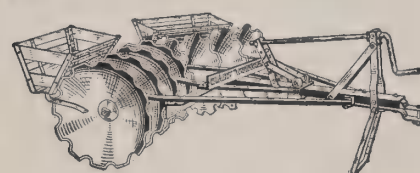
"Cutaway" Utility Harrow

Especially designed for one-horse use. It is light weight, light draft, and easy to handle. Made very strong and of the best materials. Suitable for the market gardener, florist, or general farmer. Gangs are reversible. 10 14-in. discs, spaced 5 in. apart, 4 ft. wide. Weight 200 lbs. \$40.50.



Clark "CUTAWAY" Wonder Disker

A ruggedly built, powerful implement designed for heavy-duty work where ordinary plows and harrows cannot be used, but it is not necessarily an implement for special jobs alone. It can be used profitably on almost any farm for discing sod, stubble, hard ground, orchards, etc. Designed so that draft is direct from axle. Has deep, roomy weight-carriers, mounted low at rear. Gangs are reversible. A 10-20 tractor can easily pull the 6-foot size.



8	24-in. discs,	6-ft. cut.	Weight, 750 lbs.	\$133 00
10	24-in. discs,	7½-ft. cut.	Weight, 965 lbs.	170 00

Can be furnished with trailer gangs making a four-gang outfit. Prices and circular on request.

Clark "CUTAWAY" Flexible Double-Action Tractor Disc Harrow

The Clark "Cutaway" Flexible Tractor Harrow gives all the flexibility that can be desired and at the same time retains many of the valuable and exclusive Clark "Cutaway" features. This is an unusually sturdy Harrow with its heavy angle-steel and channel-steel frame construction. All four gangs are angled by a powerful crank and screw control. The rear section can be quickly removed by taking out two bolts and the front section of the Harrow used alone if desired.

The construction of this Harrow employs the practical over-draft principle which aids penetration and provides clear space in front of the discs with no low projections to catch on obstructions. Cutout discs are regular equipment. Solid discs, or any combination of the two types, will be furnished at the same price. There is also a complete line of rigid-frame Double-Action Tractor Harrows in both regular and extra-heavy service models.

No. of Discs	Diam. of Discs	Width of Cut	Weight	Price
20	16 in.	5½ ft.	565 lbs.	\$103 50
24	16 in.	6½ ft.	765 lbs.	122 00
28	16 in.	7½ ft.	885 lbs.	131 50
20	18 in.	5½ ft.	625 lbs.	117 00
24	18 in.	6½ ft.	850 lbs.	132 00
28	18 in.	7½ ft.	950 lbs.	145 00

COMPLETE CATALOGUE OF CLARK "CUTAWAY" HARROWS ON REQUEST

Heat-Treated Forged-Edge Discs on all Clark "Cutaway" Harrows



Wiard Lime and Fertilizer Sower

Very strongly built. Positive feed, provided by rotary feeder-bars attached to spiders on drive shaft, forcing material out evenly through half diamond-shaped holes in bottom spaced $\frac{3}{4}$ inch apart. Hopper is made of the best grade of lumber and has a capacity of 15 bushels. The remainder of the machine is made entirely of steel and cast-iron. Wheels are made entirely of steel, and each wheel is a driving wheel driving one-half of the machine. Weight of machine is carried on stub axles attached to frame. Furnished with screen made in two sections and of wire-mesh screen. Capacity 200 to 4,000 pounds per acre, controlled by two levers on rear of hopper. Spreading width 8 feet. Weight 460 pounds, \$62. Doubletrees and Neckyoke, \$2.50 extra. Furnished with pole for horses or tractor hitch for tractor use.



Pittsburgh Steel Land Roller

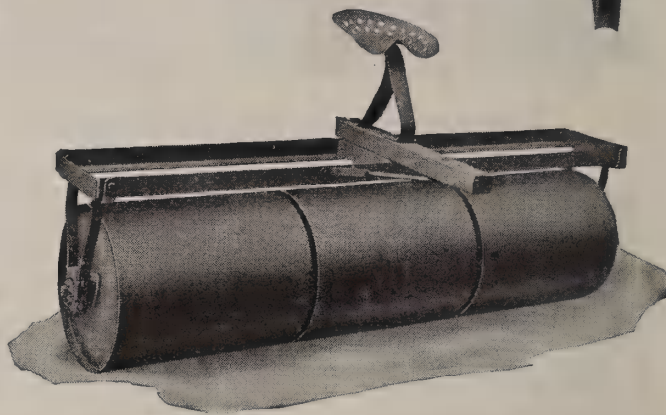
Drums or rolls are made of heavy, 12-gauge high carbon steel, with pressed steel ends, and will not dent.

Axles are $1\frac{3}{4}$ inches in diameter; angle frame of high carbon steel, $3 \times 3 \times \frac{5}{16}$ inches.

Hangers are of heavy wrought steel with hardwood boxings.

The frame is constructed so that it may be used as a weight-box should additional weight be required.

Pole sets on top of frame, thus enabling us to use shorter and more rigid hangers. The hitch is underneath the tongue, reducing the draft and neck weight to a minimum. 8-foot, 3 section, 24 inches in diameter. Weight 535 pounds, \$41.50. Doubletrees and Neckyoke, extra \$2.50.



Buch's Double Gang Disc Pulverizer

This tool has two gangs of iron discs which crush and cut lumps, pack out all air-spaces, and level the surface of the field, all in one operation.

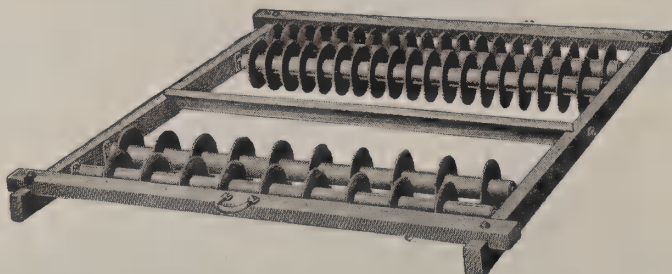
The discs of the back gang come between those of the front gang so that no lumps are missed. This Pulverizer, with a harrow for bringing up the lumps to the top, will make a perfect seed-bed in any soil. The discs of the front gang build up a set of ridges and the back gang, coming half way between, splits and works these ridges over, thus stirring the soil.



	Length	Rolling Width	Diam. Front Disc	Diam. Rear Disc	No. Sections	Weight	Price
No. 625.	6 ft.	62 in.	15 in.	12 in.	31	800 lbs.....	\$63 50
No. 626.	7 ft.	74 in.	15 in.	12 in.	37	900 lbs.....	66 00
No. 627.	8 ft.	84 in.	15 in.	12 in.	43	1,000 lbs.....	71 00
No. 628.	9 ft.	98 in.	15 in.	12 in.	49	1,100 lbs.....	80 00

Furnished with long pole for horses or tractor hitch. If both long pole and tractor hitch are wanted, add \$3 to above prices. Doubletrees and Neckyoke, extra \$2.50. Other sizes quoted on request.

Meeker Smoothing Harrow (Prepares a Fine Seed-Bed)



The Meeker Smoothing Harrow is a perfect pulverizing and smoothing Harrow and land-roller combined. It has four sets of rollers containing 46, 58 or 82 discs, depending upon the size, the discs being set so as to overlay or meet.

These discs grind up all lumps, leaving the soil fine and smooth. The discs of one roller work between those of the other, which prevents clogging even in damp soil. The board in the center, set at an angle, can be adjusted up and down and serves as a leveler.

The Meeker will prepare any type of soil—sand, clay or muck—stirring and pulverizing it to a depth of 4 or 5 inches.

	Width	Length	Cutting width	Discs	Price
No. 468.	4 ft., 6 in.	4 ft.	4 ft., 3 in.	46 8 in.....	\$40 00
No. 4610.	4 ft., 6 in.	4 ft.	4 ft., 3 in.	46 10 in.....	45 00
No. 608.	6 ft.	6 ft., 8 in.	5 ft., 3 in.	58 8 in.....	47 00
No. 610.	6 ft.	6 ft., 8 in.	5 ft., 3 in.	58 10 in.....	50 00
No. 808.	8 ft.	6 ft., 8 in.	7 ft., 3 in.	82 8 in.....	60 00
No. 810.	8 ft.	6 ft., 8 in.	7 ft., 3 in.	82 10 in.....	70 00

Also a very valuable implement for use on golf-courses. Ask for special circular

Iron Age Potato Planter

Assisted Feed or Automatic Feed. One-, Two-, Three-, or Four-Row Seed Hopper Interchangeable

The **Iron Age** Assisted-Feed (two-man) Planter is machine-fed, with hand corrections made by boy or man, and approaches most nearly 100 per cent planting.

The **Iron Age** Automatic-Feed Planter has adjustable picks for small, medium, or large seed. Has a very high degree of accuracy in planting—very few misses or doubles, and no bruising of seed. Seed hopper interchangeable with Assisted-Feed Planter. Picker wheel in plain view of driver at all times.

Both types of Planters are built with or without fertilizer attachment. All **Iron Age** Planters are equipped to place the fertilizer in bands 2 inches from the seed-piece, either on the level with it or a little below it. This method has not only proved to be the safest but produces the largest yields.

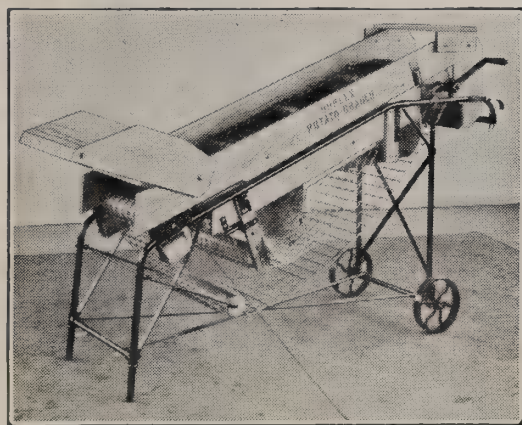
No. 410R. One-row, Automatic Feed.	\$176 50
No. 424R. One-row, Assisted Feed . . .	176 50
No. 431R. Two-row, Automatic Feed.	360 00
No. 434R. Two-row, Assisted Feed . . .	360 00
Doubletree and Neckyoke, extra if wanted.....	4 25
Tractor Hitch, extra if wanted.....	3 75

Prices are for Planters equipped with Fertilizer Attachment. For Planters without Fertilizer Attachment, deduct \$41 from prices of One-row, and \$82 from prices of Two-row Planter.

Prices of Three-row and Four-row Planters quoted on request. Ask for complete Catalogue of Iron Age Planters.



Iron Age One-row Automatic-Feed Planter



"Duplex" Potato Grader

The advantage of grading potatoes by machine is now universally recognized. In the "Duplex" we offer two styles, both well designed and substantially built. In the one style the main frame is made of heavy wrought-iron pipe and in the other seasoned oak. These Graders are regularly furnished with screens to grade both U. S. Standard No. 1 and No. 2 sizes and eliminate the culls.

Duplex No. 2 Junior Grader. Oak frame, 14½ inches wide inside. Capacity, 75 bushels per hour. Equipped with loop-link standard screens. Complete with bag-holder, \$37.50.

Duplex Junior Grader. Oak frame, 16 inches wide inside. Capacity, 100 bushels per hour. Equipped with loop-link standard screens. Complete with bag-holder, \$47.50.

Duplex Model AA Grader. (Illustrated.) Wrought-iron pipe frame, mounted on two wheels. Capacity, 150 bushels per hour. Equipped with square-link precision screens. Complete with bag-holder, \$57.50.

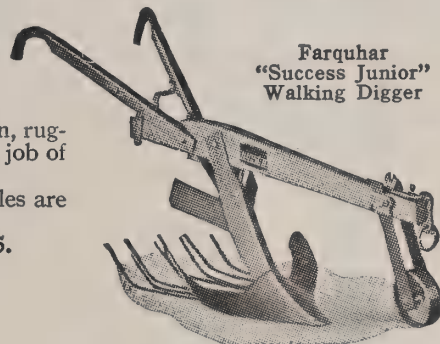
Speed-reduction gears and clutch for power application for any Duplex Grader, additional if wanted, \$25.

Farquhar "Success Junior" Walking Digger

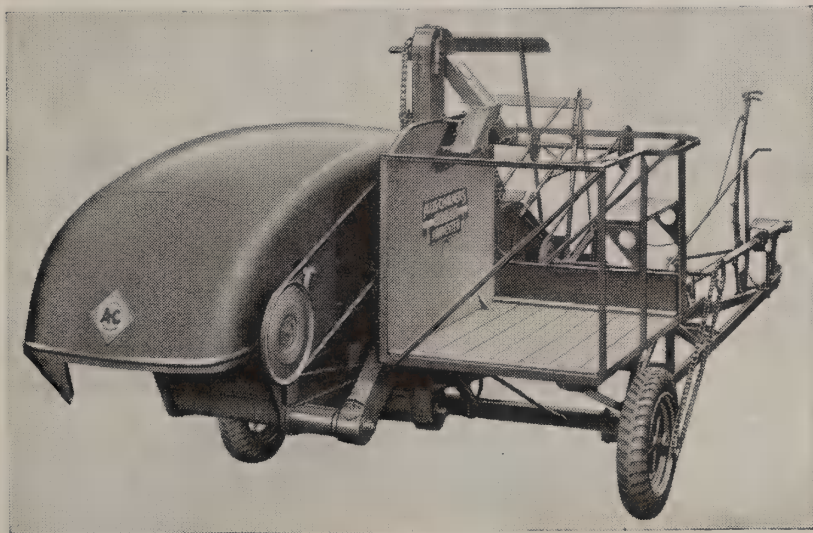
The most popular plow-type Potato Digger for the smaller growers. It is simple in design, rugged in construction, is adjustable as to depth, light draft, easily operated and does a clean job of digging. Will not cut or bruise the potatoes.

The beam and handles are made from carefully selected and well-seasoned oak. Handles are adjustable to suit the convenience of the operator.

Price, with single wheel foretruck as shown, \$15.50; with double wheel foretruck, \$17.75.



Farquhar
"Success Junior"
Walking Digger



Allis-Chalmers All-Crop Harvester

The All-Crop Harvester provides a better and more profitable method of harvesting all grain and seed crops. It does the work of both binder and thresher in one simple operation. It saves labor, reduces costs, eliminates needless loss of grain, and pays you the full profit on your crop. All-Crop harvesting is the most profitable harvesting method ever known. The Allis-Chalmers All-Crop Harvester is designed and built for power take-off operation and is adapted for use with any make of tractor. Made in two sizes; **Model 40** has 40-inch sickle and **Model 60** with 60-inch sickle.

Ask for special catalogue and prices

Hallock Walking Weeder

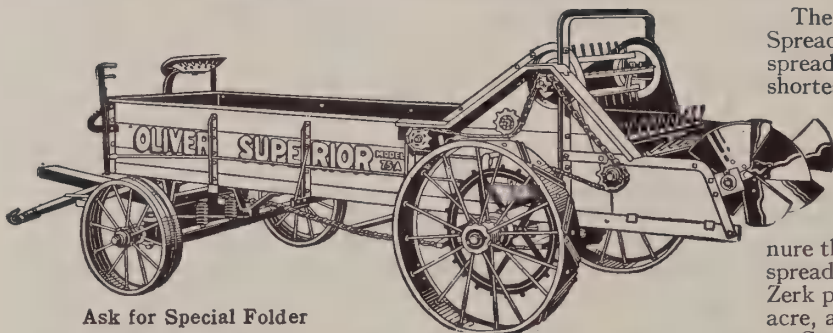


No successful farmer of today considers that his outfit of modern tools is complete unless he has a Weeder. The experience of the last few years has satisfied all users of this tool that it is one of the most important on the farm, and is an absolute necessity for best results. In its operation it works over and among the plants without injury, destroys all the small weeds, breaks up the crust, mellows the ground, and in this way puts the plants in best possible condition for rapid growth. The Weeder is substantially built from the best of materials. The teeth are located in three rows, and they are made of high-quality steel all properly shaped for best work. Equipped with runners for transporting to and from the field. Made in two sizes.

7½-foot, with 39 teeth and runners. Weight 90 lbs.\$14 50
9-foot, with 45 teeth and runners. Weight 100 lbs. 15 85

Oliver Superior Manure Spreader

With Many Advanced Features That Make Easier Handling, Better Spreading, Longer Life



Ask for Special Folder

The value of manure as fertilizer is well known. Here is a Spreader that makes it simple to get it on the ground properly spread, in correct amounts, with the least possible labor in the shortest space of time.

The frame of the Oliver Superior is made entirely of steel. Sills are single-angle beams extending the full length of the Spreader. Box is of clear long-leaf yellow pine. The beater consists of the main 8-bar cylinder and the 4-bar top cylinder. Eight cleaver-shaped blades of the Wide Spread, revolving at high speed, pulverize the manure thoroughly and distribute it evenly over the full width of the spread. All shafts run in Hyatt roller bearings and are Alemite-Zerk pressure lubricated. The feed-range is from 4 to 28 loads per acre, and is adjustable from the seat.

Capacity, 75 bus. Weight 1,565 lbs. Price, with 2-horse hitch

or tractor hitch, \$180. Brake extra, if wanted \$9. 3-Horse hitch, extra \$4.40.

Peoria Union Combined Grain Drill

The Peoria Drill is a combination Grain and Fertilizer Drill which will handle perfectly all kinds of cereal grain and any kind of fertilizer. The many fine features built into this Drill assure the user the best and most advanced Drill on the market today. The frame is strongly constructed and properly braced to withstand all strain.

The multiple gear and sliding pinion mounted on the drive shaft permits the sowing of any desired quantity of grain from two pecks to five bushels per acre. The flow of fertilizer is also easily regulated to any desired quantity per acre.

Prices with Fertilizer and Grass Seed Attachments

Pin Hoe Drills	
9 Pin Hoes	\$149 00
10 Pin Hoes.....	159 00
11 Pin Hoes.....	167 50

Spring Hoe Drills	
9 Spring Hoes.....	\$153 00
10 Spring Hoes.....	161 00
11 Spring Hoes.....	171 00

Single Disc Drills

9 Single Discs.....	\$156 00
10 Single Discs.....	165 00
11 Single Discs.....	176 00

Prices on other sizes quoted on request. Ask for Special Catalogue



Thompson Royal Wheelbarrow Grass Seeder

An accurate and economical machine for sowing clover, timothy, alfalfa, and other small seeds broadcast. Sows 1 to 24 quarts per acre and has chain feed. It is instantly thrown out of gear, and the amount of seed sown is quickly governed by changing the pin in the index plate as thereon indicated. Light running, perfectly balanced and well constructed throughout. Will easily sow 40 acres a day.

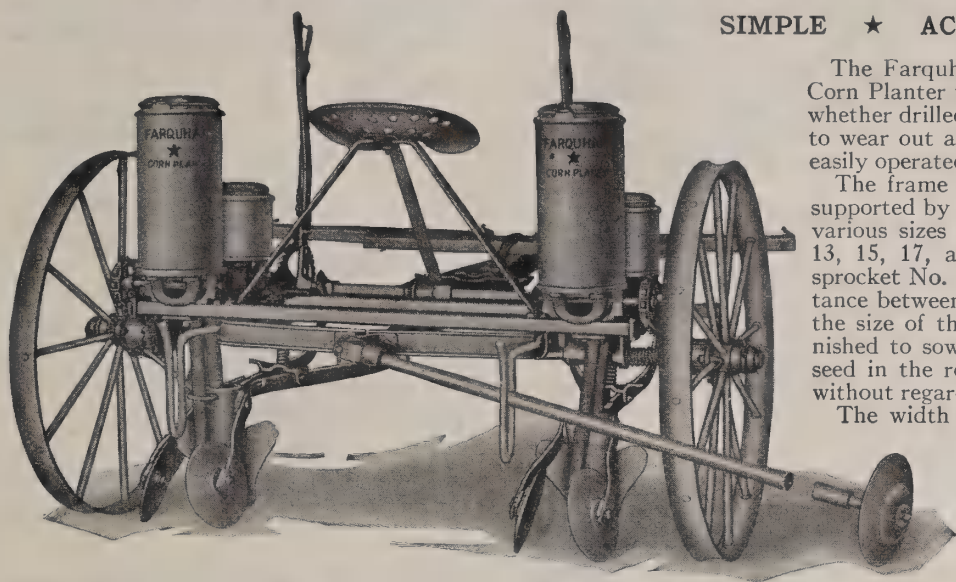
With 12-foot Hopper.....	\$14 75
With 14-foot Hopper.....	15 60
With 16-foot Hopper.....	16 50

No. 106. Thompson Fairway Seeder. Designed for sowing lawn seed on a large scale. Has adjustable feed; 10-foot Hopper. \$19.25.



Farquhar Star Two-Row Corn Planter

SIMPLE ★ ACCURATE ★ DEPENDABLE



Farquhar Corn Planter with Shovel Opener and Disc Coverer

The Farquhar Star is a simple and very positive drop Corn Planter that produces a most uniform stand of corn, whether drilled or planted in hills. It has no intricate parts to wear out and no fine adjustments to make, hence it is easily operated and has long life.

The frame is strong and made of "I" beam steel and supported by a heavy, round axle. Plates and sprockets of various sizes are furnished to drop a single kernel every 13, 15, 17, and 19 inches. The double-hole plates and sprocket No. 7 drop two kernels every 26 inches. The distance between the hills may be increased in proportion to the size of the sprocket used. Special plates can be furnished to sow other seeds. The Farquhar Star drills the seed in the row but it may be adjusted to drop in hills without regard to checking or cross cultivation.

The width of planting is adjustable and rows may be spaced 39 inches, 42 inches, or 45 inches apart. When set, the runners or openers are rigid and free from all swinging motions. Another feature which makes the Farquhar Star superior is the separate depth adjustment of each opener. Two-row single lever planters operating on steep hillsides have no means of securing uniform depth of planting. But the Far-

quhar Star has a regulating lever for each opener, hence is the ideal planter for both hillside and level ground. Furnished with steel wheels 36 inches high with concave rims. Doubletrees and neckyoke regular equipment. Equipped with pin shovel furrow-openers. Price with Fertilizer attachment, \$98.

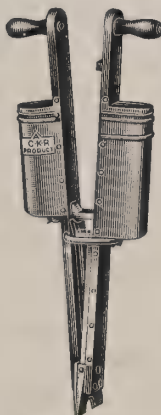
Oliver Superior One-Row Corn Drill



Price, with Fertilizer Attachment, \$26.50.

The Oliver Superior Drill is a very accurate planter, strongly made, and very easy to operate. Two pitmans, driven from the main drive-wheel, operate the planting mechanism and the fertilizer attachment. The double-pitman provides a steady, smooth action for driving the planter plates. Consequently, seed is planted at a uniform spacing in the row to make an even stand. Corn-hopper is provided with a knocker to assure positive flow of the seed. The rim of the drive-wheel is open, which acts as a press wheel. A convenient lever between the handles throws the planter in and out of gear. The fertilizer attachment is adjustable and will distribute from 50 to 600 pounds per acre. Furnished with three plates to provide 7, 10 and 15-inch spacing of seed in the row. Weight 134 pounds. Pea or Bean Plates can be furnished at an extra charge of 60 cts. each.

C-K-R Corn Planter with Fertilizer Attachment



C-K-R Planter

Simple—Durable—Economical

This combination Corn Planter with Fertilizer Attachment is a two-hand slide type with an adjustable segmental slide of pressed steel; the hoppers, hopper bottoms, and conveyor tubes are of steel. The polished steel jaws are arranged to drop corn on each side and a little above the fertilizer or phosphate, which is dropped in the center. Fertilizer drop is regulated to suit the operator. A good tool for hand planting and hand fertilizing at the same time. No. 4. Price \$3, postpaid.



Eclipse Planter

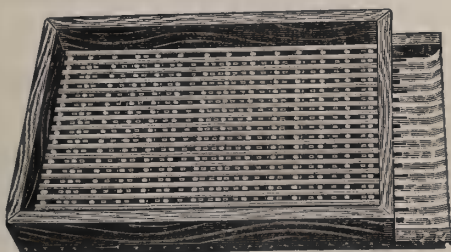
The Eclipse All-Steel Rotary Hand Corn Planter

This Planter is of all-steel construction, but nevertheless light in weight and will last for years. Simple in operation and works easily. Has 4 changeable discs. No. 2. Price \$2.65, postpaid.

Perfection Corn-Grader

A seed Corn-Grader has become a necessity in getting a uniform stand of corn. No planter will drop uniformly unless the seed is graded. Graded seed insures perfect dropping, stronger plants, and increases the yield 5 to 15 bushels per acre.

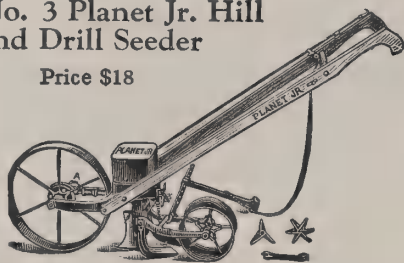
There are four grades of corn on every ear. This Grader sorts them out in one simple operation. It has a guard on the lower screen to prevent the spilling of the corn while grading. Capacity 4 to 6 bushels per hour. Size 11 x 19 inches. Price, \$1.25. Postage 15 cts. extra.



Seed Drills and Wheel Hoes

No. 3 Planet Jr. Hill and Drill Seeder

Price \$18



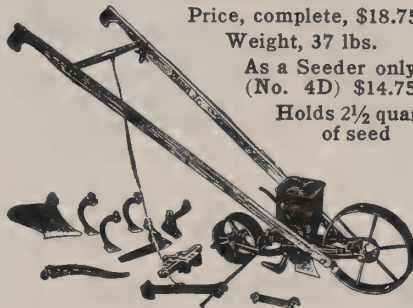
A favorite among market-gardeners everywhere. Sows accurately practically all vegetable and some flower seeds in drills or hills. The change from drilling to hill-dropping can be made in an instant. Holds 3 quarts of seed. Weight, 33 lbs.

No. 4 Planet Jr. Combined Hill and Drill Seeder, Wheel Hoe, Cultivator, and Plow

Price, complete, \$18.75.
Weight, 37 lbs.

As a Seeder only
(No. 4D) \$14.75

Holds 2½ quarts
of seed



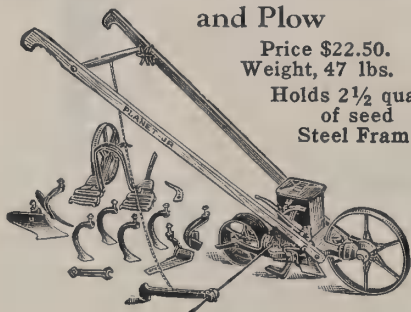
Plants in hills 4, 6, 8, 12, or 24 inches apart. Soon pays for itself in the family garden as well as in the larger acreage. Sows all garden seeds (in drills or in hills), plows, opens furrows and covers them, hoes and cultivates quickly and easily.

No. 4D, Hill and Drill Seeder, same as above less the cultivating attachments, \$14.75.

No. 25 Planet Jr. Combined Hill and Drill Seeder, Double and Single-Wheel Hoe, Cultivator, and Plow

Price \$22.50.
Weight, 47 lbs.

Holds 2½ quarts
of seed
Steel Frame



As a Seeder it is practically the same as the Planet Jr. No. 4, and as a Wheel Hoe it has the same steel frames and cultivating attachments as the Planet Jr. No. 12 Double-Wheel Hoe.

Two acres a day can easily be worked, and when it is done it will be a better job than several men could have done in the same time with hand hoes.

Ask for a Planet Jr. Catalogue

No. 300 A Planet Jr. Drill Seeder

Price \$20
Weight, 34 lbs.
Capacity, 4 quarts



15-in.
driving
wheel.
9-in.
concave
rear wheel

The No. 300A Seeder is a very efficient plate Seeder intended primarily for the market-gardener and farmer. Quick, easy, and accurate adjustment for all sizes of seed can be made in an instant. Plates provide 39 different holes through which a patented feed-wheel drops seeds in a steady, even row without crushing or jamming. It has removable hopper for emptying excess seeds.

Iron Age New Model Seed Drill

For many years this tool has been the favorite seeder with thousands of gardeners.



Will sow all kinds of small vegetable seeds. It has exact regulation of seed-discharge by using an eccentric index or indicator, which adjusts the slide for the seed-opening exactly where you want it.

The flow of seed can be instantly stopped by a swinging cut-off, operated by a cord and ring on the handles. Capacity of hopper 2 quarts. Weight, 50 lbs. Price, \$11.50.

Ask for special descriptive circular

No. 219 Planet Jr. Fertilizer Drill



An excellent tool for side-dressing growing crops. It will handle any dry commercial fertilizer, placing accurately regulated quantities in a furrow alongside the row. The hopper is easily removable and the machine can then be used as a cultivator with the addition of the necessary cultivating tools. It is complete as illustrated except for the covers, which are extra. Capacity of hopper 30 pounds. Wheel, 24 in. diam. Price, \$9.95.

No. 17 Planet Jr. Single-Wheel Hoe, Cultivator, Rake, and Plow

Price \$7.75
Steel Frame
15-in. Steel Wheel



Equipment very complete, including one pair of 6-inch hoes for weeding and shallow cultivation, three cultivator teeth for general and deeper cultivation, one plow with land-side for hilling, ridging, and plowing, and one leaf-lifter, which is useful in protecting overhanging leaves and vines.

Planet Jr. No. 16 Single-Wheel Hoe. Same as No. 17 but with one 3-tooth and one 5-tooth rake for fine, close cultivation. Price, \$8.95.

No. 11 Planet Jr. Double-Wheel Hoe, Cultivator, Plow, and Rake

Price, with
attachments in
cut, \$14.50



A Single and Double-Wheel Hoe in one. Straddles crops till 20 inches high, then works between. Has steel frame and 14-inch steel wheels. The greatest hand-cultivating tool in the world.

Planet Jr. No. 12 Double and Single-Wheel Hoe. Same as No. 11 but less the rakes and one pair of hoes. Price, \$11.50.

The BARKER Weeder, Mulcher, Cultivator

One man with a Barker can do more work, do better work than ten men with hoes. It cultivates and pulverizes the soil, forming a soil-mulch which holds moisture. The under ground knife cuts all weed roots, and the reel blades clear the dirt from the knife, making a perfect job of weeding.

The Junior Model Barker has 7¼-inch rugged disc wheels; new patented filler drum, and oscillating leaf-guards. Cutting parts of best-grade steel for its purpose.

No. 9. An excellent size for general garden work. It cuts a 9-inch strip. Price, \$7.25.

No. 10. Knife cuts a 10-inch strip. A very popular size. Price, \$7.45.

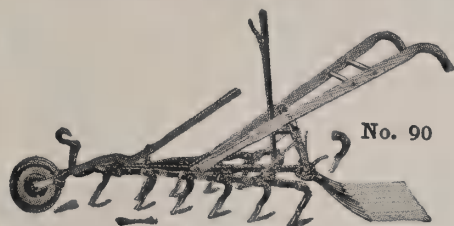
Barker Garden Grower. Has open reel, no filler drum. Price, 10-inch cut \$5.75, 6-inch cut \$5.50.



Junior Model Barker

PLANET JR. ONE-HORSE CULTIVATORS

Planet Jr. Twelve-Tooth Harrow, Cultivator and Pulverizer



No. 90

With the Twelve-tooth Harrow you go as deep or shallow as you like, come up close to row without injuring plants, cut out all weeds, stir the soil and fine it as with a garden rake. You widen and narrow as you please between 12 to 32 inches. A favorite with strawberry-growers, market-gardeners, etc.

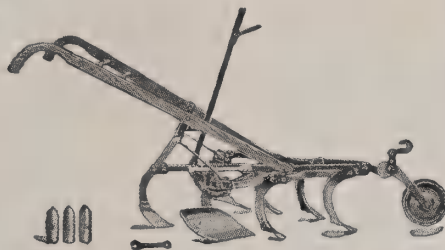
No. 90. Complete.....\$16 50

No. 90B. Without Pulverizer..... 13 50

No. 90D. Without Pulverizer or Wheel..... 10 75

We have other sizes and styles of Planet Jr. Cultivators than shown in this Catalogue. Write for ■ Planet Jr. Catalogue.

No. 82 Planet Jr. Horse Hoe and Cultivator



A very popular tool because of the large amount and great variety of work that can be done with it. Finishes rows up to 32 inches apart and works the middle complete at one passage. Zigzag frame is particularly strong and the seven teeth insure fine and thorough cultivation. Price, \$15.75.

No. 83 Plain Cultivator. Same as No. 82, but with 7 cultivator teeth only and without reversible standards. Price, \$13.75.

Pittsburgh One-Horse Cultivators

Pittsburgh Cultivators are made of round-edge steel, and are highly finished. The outside stay braces hold the frame solid to any width it may be set.

Extra care is taken in the "setting" of the shovels to see that they "face" the work properly, have correct "pitch" and are evenly spaced so that they will cut all the ground.



Pittsburgh 5-Tooth Cultivator with Hand-Wheel Adjustment



Pittsburgh 7-Tooth Cultivator with Adjusting Lever



Pittsburgh 14-Tooth Cultivator with Adjusting Lever

PITTSBURGH SHOVEL PLOWS

Pittsburgh Steel-Beam Double-Shovel Plow



Price, \$4.85

Shovels have proper pitch for entering ground right, and making steady running Plow. Beams made of solid steel, rolled, tapering at point.

Pittsburgh Steel-Beam Single-Shovel Plow



A well-finished and highly satisfactory tool

PRICES

With 12-inch Shovel.....\$4 50
With 14-inch Shovel..... 4 85

Pittsburgh Steel-Beam Triple-Shovel Plow



Price, \$6.60

The Triple-Shovel Plow is an excellent tool for cultivation of corn and potatoes, or anything that is planted in rows, and is adapted to the wants of both the farmer and gardener. By its use the entire surface of the ground is plowed and still left smooth and level.

Pittsburgh Wing-Shovel Plow



For hilling potatoes and other similar work, this tool will be found highly satisfactory. The wings are adjustable by means of the punched straps or braces that support them, and they can be set to any desired angle. Width of main shovel is 12 inches, and with wings extended to limit, it makes a total width of 26 inches. Price, \$6.



Horse Hoes for 5- and 7-Tooth Cultivators

PRICES

5-Tooth Cultivator with Hand-Wheel Adjustment.....\$6 65
5-Tooth Cultivator with Adjusting Lever..... 7 65
7-Tooth Cultivator with Hand-Wheel Adjustment..... 7 65
7-Tooth Cultivator with Adjusting Lever..... 8 65
14-Tooth Cultivator with Hand-Wheel Adjustment..... 6 80
14-Tooth Cultivator with Adjusting Lever..... 7 80
Gauge Wheel Extra..... 90
Horse Hoes Extra for 5- and 7-Tooth Cultivator..... 1 60

We have repair parts for all models of Fordson Tractors in stock

Gravely Garden Tractors and Power Mowers

For Soil Tillage and General Lawn Upkeep

The many jobs a Gravely will do, and do better, and with less labor than other methods, are almost unbelievable. Investigate this modern power equipment before buying any power mower or garden tractor.

Model L Gravely

The Model L Gravely is the most versatile machine of its kind and size in the world. Here is a compact, sturdy, full 5-H.P. Tractor which can be used for *plowing, cultivating, rough sickle mowing, lawn mowing, spraying, rolling, bull-dozing, and hauling, also belt work and for snow removal*. Only the removal of four bolts is necessary to turn from one job to the other.

The Model L Gravely will do a complete job of mowing under any condition. You can use either the 42-inch Sickle Bar Mower or the 30-inch Rotary Reel Type Mower. Both are completely power-driven. As is the case with every attachment, all the power is transmitted direct to them by means of machine-cut steel gears and a splined shaft coupling with a safety slip clutch incorporated individually into each attachment.

For plowing, this very same machine can be used with the Power-Driven Rotary Plow, a patented, power-driven tool which will not only plow your ground but will make a seed-bed in the same quick operation. This Rotary Plow has revolutionized the Garden Tractor industry. In the winter the machine may be used for snow removal with the Reversible Blade Type Plow, V-Type Plow, or Rotary Brush.

Cities, country clubs, estates and park departments make year-round use of this machine. It can do all the work about a country home of 2 to 20 acres.

Before buying any Tractor or Mower, allow us to show you the Gravely. A demonstration will not obligate you



A close-up view of the Rotary Power Plow

Power-Driven Rotary Plow

This Power Tool will pulverize the ground as it plows, making a finer seed-bed in one operation than is possible with two or three with the ordinary methods. It is powered by the 5 h.p. tractor motor. Depending upon soil conditions, it will plow from 7 to 12 inches deep and cut a furrow as wide as 10 inches.

Model D Gravely

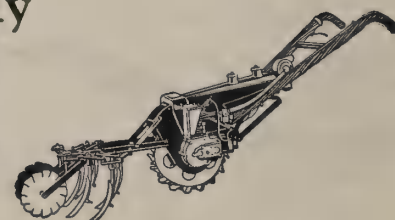
The Model D Gravely meets the demand of the commercial grower and nurseryman. For many years it has been recognized by leading growers as the best garden tractor for cultivating in narrow rows. Its narrow, compact design, an exclusive Gravely feature, permits the use of a front cultivator frame. Having the tools in front enables the operator to do close and accurate work, and since the single wheel is only 3¼ inches wide, you can cultivate in rows as narrow as 10 inches without damaging a single plant. In addition to the cultivating steels, tools can be had for the cultivating attachment for furrowing out, hilling, etc. The Model D can also be furnished with sickle mower and rotary mower.

"After putting my Model L Gravely to every test, plowing and cultivating my garden, rough mowing, etc., I must say that it does everything you claim for it. I use it on about four acres and do the work myself after business hours." *A Business Man.*

"I use my Gravely all seasons of the year—to cultivate my garden, for all kinds of mowing, and spraying a young orchard. Find it particularly useful in winter to operate circular saw, grinding and chopping feed. I am well pleased." *A Pittsburgh Attorney.*



Model L Gravely
with 42-inch Sickle Bar Mower



Model D Gravely with
Cultivating Attachment

POWER vs. DRUDGERY: Write us for price-list and "Power vs. Drudgery," the complete catalogue with specifications and illustrations of all of the attachments available for both tractors, or come in to see them.

Bolens Garden Tractors

A size and model
for every purpose

Bolens Power Hoe

Made particularly for the home-garden. Has easy-starting $\frac{1}{2}$ h.p. motor, positive V-belt drive, patented tool control, arched axle for plant clearance, offset handles, patented split sheave, differential action for easy turning, rubber handle-grips, and many other features. Can be furnished with lawn-mowing attachment if desired.

Price as illustrated, \$84.50; with pneumatic tires, \$97.50. Lawn-mowing attachment, extra, \$8.



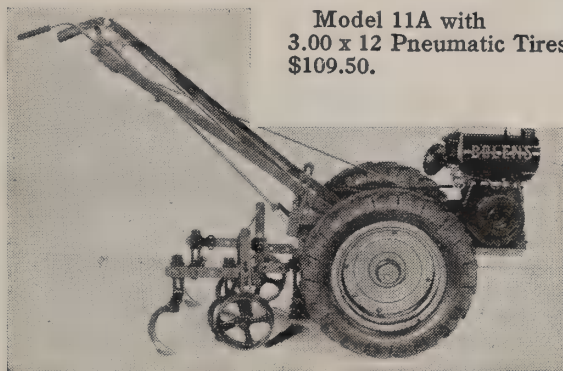
Bolens Hi-Wheel Tractor

Designed for part-time and few-acre farmers, also large-scale commercial growers. Has the weight and power to do plowing and seed-bed preparation. It will take the place of a horse in field crops such as corn and potatoes, and is also suitable for gardens, chicken-runs, berry patches, small orchards, and the like. Has two speeds forward and one reverse. An all-purpose tractor with many outstanding features. Available with 5 h.p. or 6 h.p. motor, steel wheels or pneumatic-tired wheels.



Bolens Husky Hoe

Model 11A with
3.00 x 12 Pneumatic Tires
\$109.50.



Recommended for market gardeners, florists, home-owners, and all who want a convenient tractor for cultivating. Available in 2 sizes: Model 11A with 1 h.p. motor and Model 12A with $1\frac{1}{2}$ h.p. motor. The Bolens Husky Hoe has patented tool control, arched axle, instant hitch, offset handles, narrow tread, and other important and exclusive features.

Bolens Model B6A Garden Tractor

A medium-sized Tractor that will do both plowing and cultivating. The powerful, snappy $2\frac{3}{4}$ h.p. motor makes it an ideal cultivating outfit for the commercial grower, and its wide range of adaptability makes it an excellent outfit for the small-acreage farmer.

Bolens Tractors are built by the pioneers of the Garden Tractor industry. They provide easier work, better crops, and increased profits for the grower.



WRITE OR PHONE

For complete literature and Price-List of Bolens Tractors, or come in to see them.

Malta Riding Cultivator

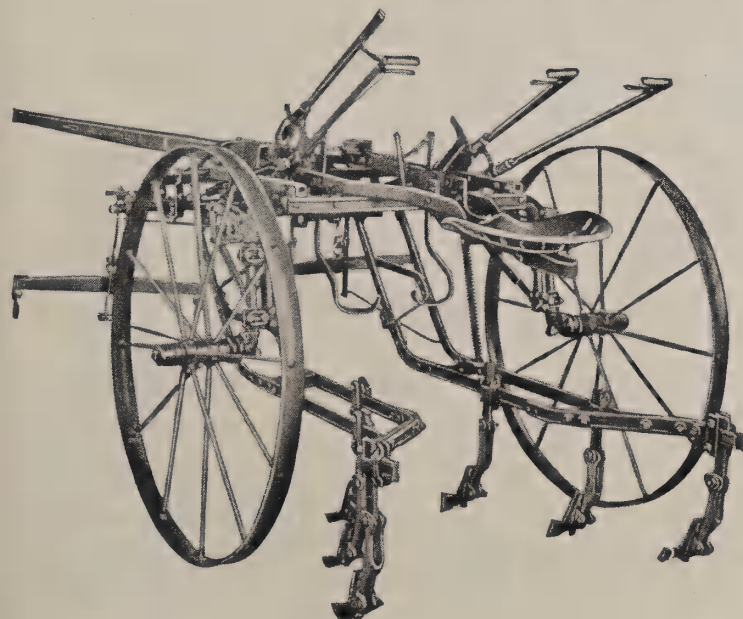
The All-Purpose, All-Crop Cultivator

A "farm-tested" tool, embodying superior advantages which make it today's outstanding Cultivator. Simple in construction yet has every feature desired by farmers for use on level or hilly ground, in the cultivation of corn or any other row-crop. Lever-tilted tongue assures even depth whether cultivating up or down hill. Depth levers within easy reach of operator. Gangs are raised by a master lever, which enables depth level to be retained in position set. Blades are specially tempered alloy steel and are reversible. Unobstructed view of forward gangs from seat while driving. Adjustable seat. Furnished with either pin or spring break shanks. Regularly equipped with fenders. The tread is adjustable from 46 inches to 58 inches. Will effectively cultivate any crop that is planted in rows 30 to 50 inches apart. The wheels are extra strong, 42 inches high, and equipped with dustproof hubs.

No. 6S.	6-shovel; spring-trip.	Weight 480 lbs.	.....	\$61 50
No. 6P.	6-shovel; pin-trip.	Weight 425 lbs.	.....	55 00
No. 8S.	8-shovel; spring-trip.	Weight 500 lbs.	.....	64 00
No. 8P.	8-shovel; pin-trip.	Weight 450 lbs.	.....	56 50

WE DELIVER PREPAID at prices quoted in this catalogue.

See page 143



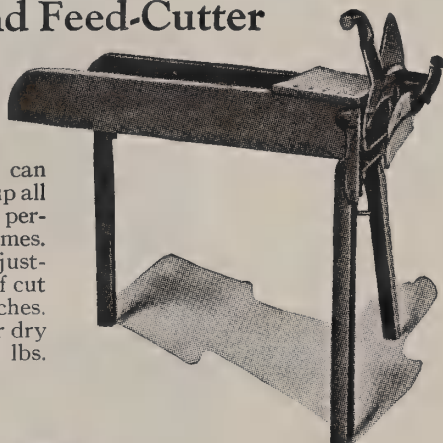


The Blizzard is backed by over 60 years of experience in building Ensilage Cutters. Quality of work, capacity, performance, safety, convenience, and durability are the factors by which the value of an Ensilage Cutter is determined, and the Blizzard meets every one of these requirements. The Blizzard is well known and used and is recommended by all leading farmers.

Space prevents enumerating the many features of the Blizzard. If you are interested in an Ensilage Cutter, write for a Blizzard catalogue which not only fully describes the Cutter but has helpful suggestions on ensilage and silo-filling. Be sure to see the Blizzard before you buy an Ensilage Cutter. Made in Three Sizes. Prices on Request.

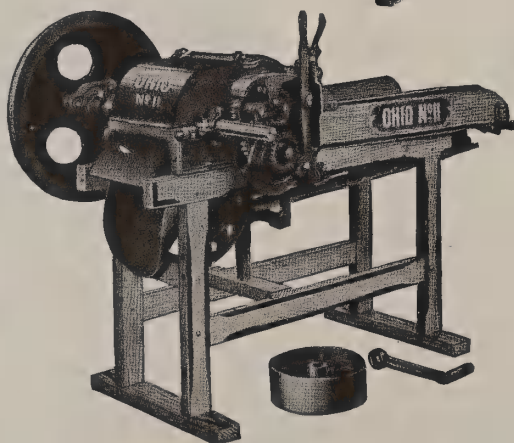
Buch's Hand Feed-Cutter

A durable Cutter of simple design and low in price. It has an 11-inch, tempered, curved knife, which can be adjusted to take up all wear, thus insuring a perfect shear-cut at all times. Has gauge plate adjustable to any length of cut desired up to 3 inches. Cuts either green or dry fodder. Weight, 50 lbs. Price \$8.25.



Ohio No. 11S Feed-Cutter

Used for cutting all kinds of dry or green roughage, corn-stalks, hay, straw, clover, etc. Has patented feeding device and throw-out lever, heavy well-balanced safety fly-wheel. Frame is mortised, tenoned, and pinned; has wide and well-babbitted bearings. Knives have carefully tempered, high-carbon tool steel cutting edges. Capacity, 2,500 to 3,000 pounds dry feed per hour and 3 to 4 tons per hour on ensilage. Length of cut, $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$ and 1 inch. Choice of 6-, 8-, 10-, 12-, or 14- by 4-inch face pulley. Power required, 3 or 4 h.p. gasoline, or 2 h.p. electric. Weight, 440 pounds. Price, complete, with 4 knives, \$81.50.



Ohio No. 8½ Feed-Cutter



No. 8½

The No. 8½ is an excellent Cutter for anyone needing a small, easy-running machine for cutting all kinds of dry or green food for one or a few head of stock. It is well built and reasonably priced. The feed box is 38 inches long and has 25-inch fly-wheel. The

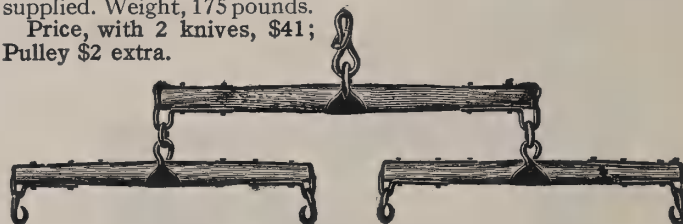
framework is of good hardwood mortised, tenoned, and pinned. Has two high-carbon steel knives. The cutter bar is chilled iron and the patented feeding gears and rolls work automatically whether one stalk or an armful is being fed.

Capacity. Cuts one bushel of hay in thirty to forty seconds.

Length of Cut. Cuts $\frac{1}{4}$ -, $\frac{1}{2}$ -, $\frac{3}{4}$ -, and 1-inch lengths with two knives or double these lengths with one knife.

Pulley for Power. Choice of 8- or 10- x 3-inch pulley can be supplied. Weight, 175 pounds.

Price, with 2 knives, \$41; Pulley \$2 extra.



Wood Plow Doubletree Set

No. 652. Doubletree $3\frac{1}{4}$ x 38 inches with $\frac{3}{4}$ -inch steel loops, singletrees $2\frac{3}{4}$ x 30 inches with $\frac{1}{2}$ -inch steel loops. Made from second-growth hickory, painted red. Complete \$5.

Wood Wagon Doubletree

Doubletree 2 x 4 x 48 inches. Singletrees $2\frac{5}{8}$ x 34 inches. Neck yoke $2\frac{5}{8}$ x 40 inches. Painted red, varnished and striped. No. 710. Per set \$3.65.

Agricultural Set

No. 691. Complete hitch for land-rollers, hay rakes, tedders, mowing machines or any implement where flat doubletree is used. Painted red. Doubletree and singletrees \$1.85.

No. 320. Neck yoke extra if wanted, 85 cts.

Wagon Neck Yokes

Made from second-growth hickory; center ring 3-inch diameter. No. 303. $2\frac{5}{8}$ -in. x 42 in. long, \$1.60. No. 305. 3-in. x 48 in. long, \$2.40.

Wood Plow and Cultivator Singletree

Full-length loop pattern strap. Ring in center

No. 1880. $2\frac{3}{8}$ x 26-in.	\$0 80
No. 1881. $2\frac{3}{8}$ x 28-in.	85
No. 1882. $2\frac{3}{8}$ x 30-in.	90

Breast Yoke

No. 631. Made from hickory. $1\frac{1}{4}$ inches x 22 inches long, \$1.

Corn Knives • Corn Hooks • Hay Knives

No. 5. Disston Corn Knife. Curved blade, $15\frac{1}{2}$ inches long, riveted to hardwood handle. Price 65 cts.

No. 2. Disston Corn Knife. Straight blade, $15\frac{1}{2}$ inches long, highest quality steel. Hardwood handle. Price 50 cts.

Brooks Corn Hook. Adjustable blade, 13 inches long, serrated edge. Handle 18 inches long. Price 75 cts.

Ney Scalloped Hay Knife. Has four sickle-edge knives. 18 inches long. Handle adjustable to suit operator. Price \$2.20.

Postage 15 cts. extra

STOVER HAMMER MILLS

Experiments conducted by agricultural experiment stations demonstrate some valuable facts tending to prove that it pays to feed ground grain to live-stock. Every ounce of grain or roughage you place in front of your live-stock that is not in condition to be eagerly consumed and properly digested is steadily taking away from you the price of a Stover Hammer Mill. Your feed-bill is probably one of your most costly items.

Reduce that cost and you have turned a loss into a profit.

The Stover Hammer Mills are constructed of the best materials throughout by a company with over 70 years' experience in manufacturing feed-mills.

These Mills are all of the same general design and construction, are all adapted for doing identically the same class of work; therefore, the principal difference is in the size, capacity, and power required for operation. All Mills except No. 66A and No. 87 are equipped with grain-hopper and with adjustable slide and feed-auger. All models have cast-iron chills which assist materially in reducing grain and increasing capacities. Cyclone supports are adjustable for wagon-box or stacking discharge; blowers are of heavy cast-iron construction, operated from the main shaft. No. 67A is equipped with governor and feed-roll.

Two screens are regularly furnished with each Mill. Additional screens for finer or coarser

grinding furnished at additional cost.

	Power Required	Speed R.P.M.	Width of Throat	Screen Area	Capacity* Shelled Corn	Approx. Weight	Price
No. 87	5 to 8 HP	2900 to 3200	6 in.	140 sq. in.	800 to 1200 lbs. per hour	350 lbs.	\$100.00
No. 88	12 to 22 HP	2250 to 2500	8 in.	245 sq. in.	2000 to 3000 lbs. per hour	490 lbs.	\$122.50
No. 91A	20 to 40 HP	2250 to 2450	10 1/4 in.	320 sq. in.	3000 to 5000 lbs. per hour	575 lbs.	\$155.00
No. 66A	20 to 40 HP	2350 to 2500	11 in.	348 sq. in.	3450 to 5750 lbs. per hour	710 lbs.	\$140.00
No. 67A	20 to 40 HP	2350 to 2500	11 in.	348 sq. in.	3450 to 5750 lbs. per hour	855 lbs.	\$165.00

*Using 3/16-inch screen. Capacities are always governed by grinding condition of grain and power used.

Prices include blower and cyclone and are f.o.b. Factory. Catalogue giving complete details will gladly be sent on request.

BOWSHER GRINDING MILLS

WRITE FOR SPECIAL
CATALOGUE

These Mills represent the highest achievement in practical feed-mill construction. Ear-corn can be shoveled into the hopper without fear of bridging or choking, in the sizes designed for that work.

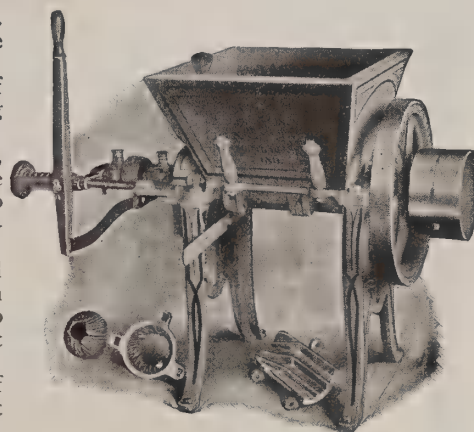
The Cone-shaped Grinders cause very little end-pressure, eliminating chances of hot-boxes, and securing for the Mill many advantages in the way of light-running qualities, large capacity, and economy of operation.

No. 0. It successfully feeds itself on ear-corn as well as on all kinds of small grain, oats, rye, barley, shelled corn, etc. It is equipped with cone-shaped grinders, the wooden relief lever, and many other advantages of the larger sizes. Capacity, 4 to 12 bushels corn on cob per hour. Power required, 2 to 4 horsepower. Without Elevator, \$36.50; with 3-in. short Elevator, \$51.50.

No. 4. The No. 4 will grind ear-corn, with or without shucks, and all kinds of small grain, either alone or mixed with ear-corn, in any proportion desired. Equipped with the cone-shaped grinders, wooden relief lever, divided hopper, etc. Capacity, 12 to 30 bushels corn on cob per hour. Power required, 8 to 12 horsepower. Without Elevator, \$80; with 4-in. Elevator, \$108.

No. 8. In this larger size the top half of shell can be pushed back and the lower half dropped down and the grinder sections and crusher knives can be changed without taking the shaft from the journal boxes. Capacity, 20 to 50 bushels corn on cob per hour. Power required, 15 to 20 h.p. Without Elevator, \$120; with 4-in. Elevator, \$148.

For description and prices of smaller Mills, see page 127



No. 0

Harvesting Machinery

Space does not permit detailed description of each machine in this Catalogue. Descriptive catalogue and prices will be gladly sent upon request. The machines we offer are made by old, established manufacturers, are strong and durable and up-to-date in every respect. Be sure to get our prices before you buy. All machines carried in stock. We welcome the opportunity to show them.

Avery Improved Champion Binders. This Binder has to its credit an unmatched record for durability, for easy pulling, and for getting the grain. The force-feed elevator, the special balancing sectors, and the relief rake are exclusive features which make this Binder the champion of them all. Made in 6-foot, 7-foot, and 8-foot cut.

Avery Champion Improved Mowers. The high standing of the Avery Champion Improved Mower is the result of a century's experience in building better farm implements. Besides being light-draft machines, they are very strong, and easy to operate. Made in 3 1/2-foot cut for 1 horse and 5-foot and 6-foot cut for 2 horses.

Avery Champion Improved Self-dump Rakes. Here's a Self-dump Rake you are sure to approve. It is the last word in durability—in convenience—in efficiency. Has an effective locking device and trip found only on the Avery Rake. It is absolutely new in design and principle and is the result of hundreds of experiments and tests. Made in 8-foot, 9-foot, and 10-foot sizes.

Avery Champion Hay Tedders. Much of the feeding and market value of the hay crop may be lost between cutting and gathering. To cure evenly there must be a thorough circulation of air all through the hay. The Champion is designed to accomplish this work most effectively and rapidly. Made in 6 and 8-fork sizes.

Moline Cylinder Hay Loader. Embodied in the Moline Cylinder Hay Loader are all of the improvements in Loader design. It is durably built and will give years of hard service. Steel parts replace castings; pulleys and wheels have replaceable boxings; the frame is of all-steel construction. These are the features that give long life and service. Furnished in 6-foot size and with fore-carriage.

The Bob-White Revolving Hay-Rake. Made of the best selected hardwood timber thoroughly seasoned. The teeth are square and are framed in the heads perfectly solid, making them less liable to come loose and break. 9-foot, 16 teeth, \$18.75.

Avery Champion Side Delivery Rake and Tedder. This machine represents all the progress which has been made in the design and construction of up-to-date haying machinery. When used as a rake the cylinder revolves in the direction in which the rake travels, delivering the hay in light, fluffy windrows on the left-hand side. Shifting the lever reverses the cylinder for tedding.

Steel Wire Bale Ties. We make a specialty of furnishing Steel Wire Hay Bale Ties for baling hay, straw, waste paper, etc., to suit all the different sizes and styles of balers. We carry in stock at Pittsburgh for quick shipment the leading sizes of cross-head and single-loop Ties. Prices will be quoted on request.

MYERS HAY TOOLS

Myers Clover Leaf Unloader

Adjustable to Fit All Standard Makes of Steel Track

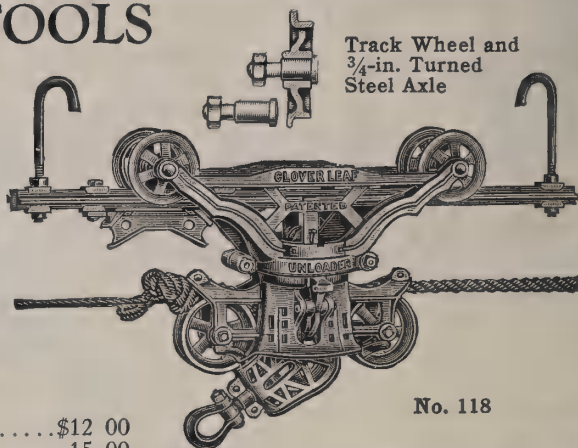
The Myers Clover Leaf Unloader is built of malleable iron throughout. It is heavy and substantially made. Truck is 16 inches long. Has 4-inch sheaves. Track wheels revolve on $\frac{3}{4}$ -inch turned steel axles and are easily replaced when worn. Lock is composed of three parts and has no springs. This Unloader has wide-open mouth to receive fork pulley when approaching in any direction. Rope sheaves have longer hub than other Unloaders. Knocker and end stop furnished with each Unloader.



No. 301



No. 302

Track Wheel and
 $\frac{3}{4}$ -in. Turned
Steel Axle

No. 118



No. 824

PRICES

No. 118.	Unloader. Complete as described above.....	\$12 00
No. 126.	Unloader. Heavier construction. Has 7-inch sheaves. Complete.....	15 00
No. 824.	Double Steel Track, with joint clamps and bolts. Furnished in 6- and 12-foot lengths only. Per foot.....	25
No. 301.	Steel Rafter Brackets, as illustrated. Each.....	05
No. 302.	Steel Track Hanging Hooks, as illustrated. Each.....	20
No. 266.	$\frac{3}{4}$ -inch Floor Hooks. Each.....	19

Myers Hay Forks

No. 1314. Myers Double Harpoon Fork. Strong and substantial. The flexible chain instead of a fixed cross-bar permits the Fork to enter the hay to a greater depth. \$3.50.

No. 670. Myers Lock-Lever Double Harpoon Fork. Made extra heavy. Has 50 per cent more capacity than ordinary double harpoon forks. \$7.

No. 773. Myers Nellis Single Fork. Constructed of extra-quality material throughout and nicely finished. \$5.50.

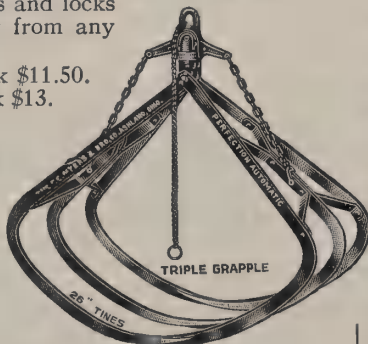
Myers Automatic Grapple Forks. Made of high carbon, heavy spring steel. Closes and locks itself. Trips easily from any direction.

No. 3004. 4-tine Fork \$11.50.

No. 3005. 6-tine Fork \$13.



No. 1314

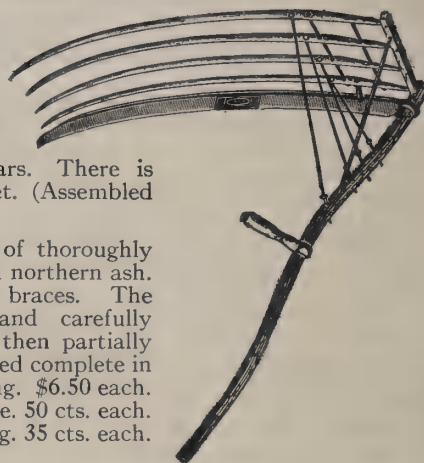


No. 3005

Grain Cradles

Westmoreland. The Westmoreland is a hand-made Cradle well known all over western Pennsylvania for many years. There is none better on the market. (Assembled complete.) \$8 each.

Genuine Schwob. Made of thoroughly seasoned, second-growth northern ash. Has adjustable wire braces. The Cradle is assembled and carefully balanced by hand and then partially knocked down and packed complete in strong carton for shipping. \$6.50 each. Extra Fingers, handmade. 50 cts. each. Extra Fingers, oil-sprung. 35 cts. each.



Rope

We handle the best grades of Manila and Sisal Rope; especially adapted for hay-fork outfits and other hard work where a strong, serviceable Rope is required.

H. & A. "Anchor" Manila Rope. Guaranteed to be stronger than Government Standards. It is carefully spun from extra-long, high-grade Manila fiber. It will long outwear ordinary Rope, will resist water and weather, and remain pliable and easy to work with under most adverse conditions.

SIZES AND PRICES PER FOOT

	$\frac{1}{4}$ -in.	$\frac{3}{8}$ -in.	$\frac{1}{2}$ -in.	$\frac{5}{8}$ -in.	$\frac{3}{4}$ -in.	$\frac{7}{8}$ -in.	1-in.
Manila	$\frac{5}{8}$ c.	$1\frac{1}{4}$ c.	2c.	$3\frac{5}{8}$ c.	$4\frac{1}{4}$ c.	$5\frac{3}{4}$ c.	7c.
Sisal	$\frac{1}{2}$ c.	$\frac{7}{8}$ c.	$1\frac{1}{2}$ c.	$2\frac{1}{2}$ c.	$2\frac{7}{8}$ c.	$3\frac{7}{8}$ c.	$4\frac{1}{2}$ c.

You Can Buy Plymouth Binder Twine and Save!

Plymouth Twine is smooth spun and strong and gives fine performance in the harvest field.

We can supply Standard Twine, regular wind (10 balls to the bale) also Plymouth Red Top (600 feet to the pound) and Green Top (500 feet to the pound). Red Top and Green Top furnished 6 balls to the bale. Each ball paper-cased which prevents tangling.

Write for prices.



No. 773

Myers Pulleys

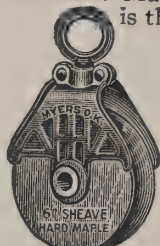
No. 1120. Has 6-inch hard maple sheave. 90 cts. each.

No. 1133. Has 6-inch hard maple sheave. 80 cts. each.

No. 434. Wood Frame Pulley. 90 cts. each.

No. 466. Not illustrated. Same as No. 434, with swivel eye. 90 cts. each.

No. 1124. Made entirely of malleable iron with iron sheave. This is the Fork Pulley for No. 118 Unloader. \$1.25 each.



No. 1133



No. 1120

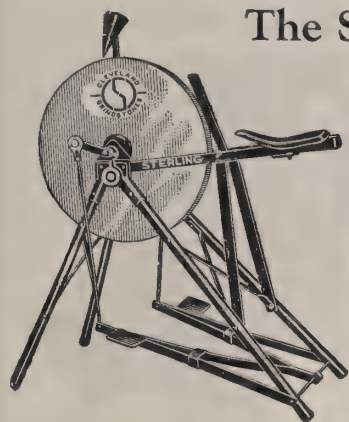


No. 1124



No. 434

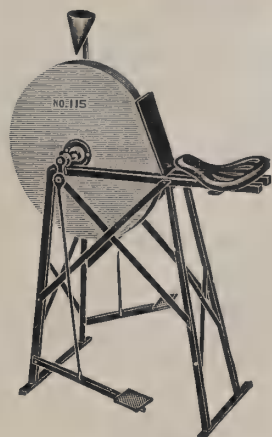
The Sterling Grindstone



A strong, easy-running, and modern Grindstone. The frame is of $1\frac{1}{8}$ and $1\frac{1}{4}$ -inch heavy steel tubing, securely braced to form a rigid comfortable operating unit. Cranks and crankshaft are fitted with improved ball-bearings, fully encased to keep out dirt. The shaft is cold rolled steel and the shaft bearings are hardened steel, to prevent wear. All castings are malleable iron. Mounted with a Ohio Stone, 19 to 22 inches diameter, $1\frac{3}{4}$ to $2\frac{1}{4}$ inches thick. \$11.60.

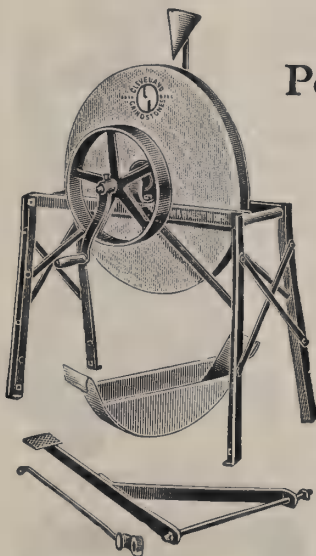
The No. 115 Mounted Grindstone

A GOOD BALL-BEARING GRINDSTONE AT A POPULAR PRICE



The No. 115 Mounted Grindstone is designed to meet the demand for a low-priced Grindstone. The frame is constructed of 1-inch by $\frac{5}{8}$ -inch angle steel substantially braced, is fitted with ball-bearings on shaft and crank, and a cold rolled-steel shaft which is detachable. It has a double treadle and is furnished with comfortable seat and clothes protector. Mounted with a good Ohio stone, 20 inches diameter, $1\frac{3}{4}$ to 2 inches thick. Weight of stone about 50 pounds. \$7.65.

Harvest King Power Grindstone



The Harvest King Roller-bearing Power Grindstone is designed to meet the needs of the farmer who desires a Grindstone to be operated by a gasoline engine. The frame is of heavy angle steel, $1\frac{1}{4}$ x $1\frac{1}{4}$ x $\frac{1}{8}$ in., strongly braced. Equipped with high-grade, selected Cleveland Grindstone, 24 inches in diameter and 2 inches thick. Pulley 12 in. diameter x $2\frac{3}{8}$ inches. Heavy steel roller bearings. Weight, complete, about 140 pounds. Shipped knocked down but easily set up in a few minutes. Price, complete, with hand-crank, pulley, drip-cup, trough, and treadle attachment, \$13.50.

Carborundum File



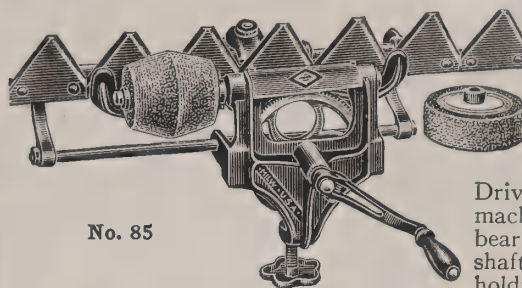
Mighty handy for the farmer and gardener. Cuts quickly and freely, and gives better, cleaner edge than the steel File, and in less time. For sharpening mower sections and practically any edged farm and garden tool. No. 57. \$1, postage 10 cts. extra.

Carborundum Lawn Mower Sharpener

Simple, practical, efficient—no need for removing the mower wheels. No. 41. For mowers 12 to 15 inches wide, 50 cts. No. 42. For mowers 16 inches in width and wider, 65 cts. By Parcel Post, 10 cts. each extra.

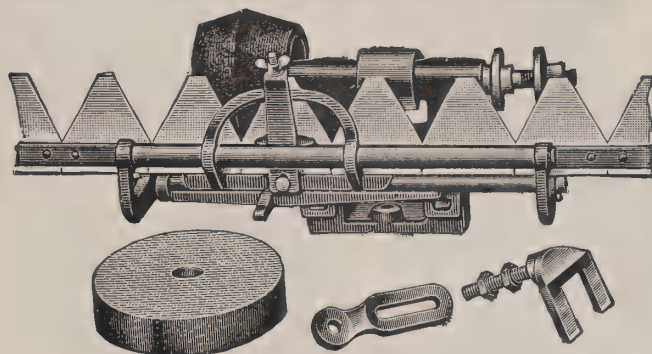
Luther Farm Grinder

Designed especially for the farmer who wants a good quality hand-power sickle and tool-grinder. Substantial construction; ball-bearing thrust eliminates friction and end-play in shaft. Clamps on mower wheel or bench.



No. 85

Drive-gear and pinion machine cut. Ball-bearings on wheel-shaft. Special sickle-holding attachment; easy and simple to grind mower knives. Grinds six sections before reclamping. Holds any length sickle-bar. No. 85. With $4\frac{1}{2}$ x $1\frac{1}{2}$ in. Medium Dimeo-Grit Tool-Grinding Wheel \$9.20, postpaid. No. LX3. A popular farm Grinder at a low price. (Not illustrated.) With sickle wheel and 4 x 1-in. tool wheel, \$4.95.



Luther Power Farm Grinder

A sturdy Power Grinder suitable for sharpening farm edge tools, axes, chisels, mower sections, etc. May be driven with $\frac{1}{4}$ h. p. motor or from line shaft. Frame made to run belt from above, below, or the side. Equipment includes one medium 6 x $1\frac{1}{4}$ x $\frac{5}{8}$ -inch Dimeo-Grit wheel, one $5\frac{1}{2}$ x $3\frac{1}{2}$ x $\frac{5}{8}$ -inch double bevel face sickle cone, and work rest sickle attachment. No. 307. \$10.60. Disc harrow attachment 50 cts. extra.

Scythe Stones

Carborundum Brand Scythe Stones. Made in just the right grit to give a proper edge. No. 190. 10 in. long, 25 cts.

No. 191. 12 in. long, 35c. No. 192. 10 in. long (heavy), 30c.

Aloxite Brand Scythe Stones. Cut fast and clean. No. 188. 10 in. long, 20 cts. No. 188R. 10 in. long (steel wire in center), 25 cts.

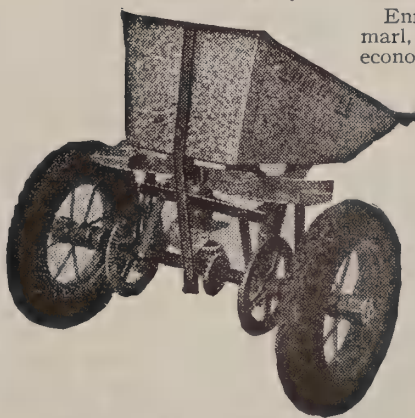
English Scythe Stones. Talacre Pattern. 12-in., 50 cts. each.

Baked Milan Scythe Stones. German Pattern. $9\frac{1}{2}$ -in., 10c, each.

New Way Lime Spreader

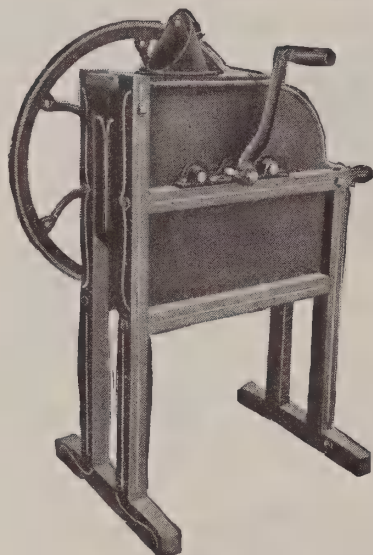
Enrich your soil with lime, marl, or other fertilizers, the easy, economical way with a New

Way Lime Spreader. Entirely gear-driven and of the trailer type, the New Way Spreader has a 36-inch wide hopper with fans only 22 inches from the ground and spreads up to 1 rod wide, depending on the speed of travel. Can be quickly attached to any wagon or truck. It also may be used for spreading cinders and sand. Weight, 200 lbs. Price, with steel wheels and steel lugs \$36.25; with 5.00 x 24, 4-ply tractor-tires, \$61.25.



Raise More Per Acre

Buch's Corn Shellers



Buch's Corn Shellers are manufactured of the best materials obtainable, by skilled workmen. Frames are made of hardwood and are unusually rigid. Joints are mortised and fully bolted. Shelling and feed wheels machine-fitted and keyed to shaft. The hopper is adjustable and takes almost any sized ear. Made in two sizes, one-hole and two-hole. Capacity, one-hole Sheller about 125 bushels per day; two-hole, by power, about 500 bushels per day.

One-Hole Sheller

With fan.....\$18 00
Without fan..... 16 25
Feed-table, extra..... 1 50
Clamp pulley, extra... 1 75

Buch's Two-Hole Corn Sheller.

With crank, combined fly-wheel and 20-inch power pulley and adjustable shaker, \$36.70.

Black Hawk Corn Sheller

A wonderfully fast and easy-running Sheller. Instantly fastened to barrel or box by two large strong clamps with wing nuts. For illustration, see page 127. Price \$3.25, postage 30 cts. extra.

Banner Root-Cutter



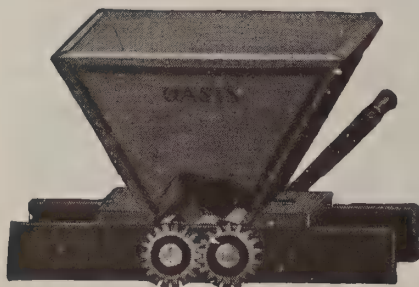
No. 20

100 bushels. Price complete, Pulley and Crank, \$34.

For prices of Root-Cutters for poultry, see page 127.

No. 18 Oasis Fruit Crusher

The No. 18 was designed to meet the requirements of the user who needs only a small, low-priced, quality Crusher. It does the work and is well worth the money. Equipped with two six-pointed star-shaped iron rolls 5 inches long. The hopper, made entirely of wood, holds a half bushel, and is made to accommodate a standard size grape-box. It is attached to the wood frame by two small lugs and is easily and quickly removed for cleaning. Price \$5.50.



These machines will cut and prepare beets, carrots, turnips, mangels, and all other roots and vegetables for feeding cattle, horses, sheep, and hogs.

No. 20. Operates by hand. Capacity 30 bushels and up an hour. Equipped with iron grating to sift soil from roots before reaching knives. Dependable in every respect. Price \$21.

No. 16. Supplied with balance-wheel, pulley, and crank, so it can be used by power or hand as desired. Capacity: By hand, 30 to 50 bushels per hour; by power, 75 to

Hocking Valley Cider Mills

Equipped with wood-roll grinding cylinder—the most efficient all-purpose grinding device made. Guaranteed to be entirely satisfactory in execution, ease of operation, capacity, durability, and finish. Manufactured from the best materials obtainable. Indestructible all-steel frame made of heavy channels and angles, rigidly bolted and reinforced by steel torsion rod under pressing head. Reinforced I-beam type semi-steel crosshead, machine-threaded, impossible to strip threads. Cold rolled steel shafts; heavy steel screw with die cut thread; heavy balance wheel and large gear ratio gives high speed to cylinder and makes grinding easy. Laminated hardwood cylinder, grain opposed. Crucible steel serrated knives. Mills furnished with plain tubs at prices named.



Bantam Mill. 1 tub...\$25 50 | **Medium Mill.** 2 tubs..\$44 60
Junior Mill. 2 tubs... 36 40 | **Senior Mill.** 2 tubs... 59 00

Hocking Valley Cider Mills with Iron Grinding Cylinder

Bantam Mill. 1 tub...\$22 75 | **Medium Mill.** 2 tubs..\$39 10
Junior Mill. 2 tubs... 32 70 | **Senior Mill.** 2 tubs... 51 60

Power Pulley for any of these Cider Mills, \$2.30 extra.

The Oasis Fruit Press

In the design, construction, and selection of materials for the Oasis Presses we offer a product superior in every respect to any hand Fruit Presses on the market. Frames are of selected, well-seasoned hardwood, finished in the natural color of the wood. Cross-heads are made of heavy iron and are much stronger than those used on most Presses of large dimensions. The tub has beveled slats, properly spaced and securely riveted to wide steel-hinged bands.

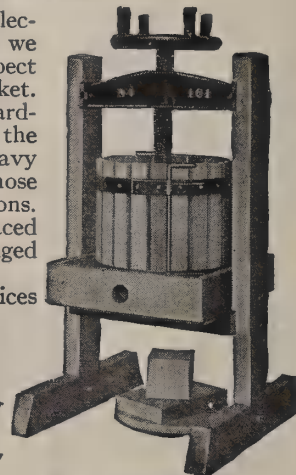
Furnished with hinged tubs at prices named.

No. 101. Tub 11½ x 11¼ in. Capacity ½ bus. \$10.50.

No. 202. Tub 14¼ x 12¼ in. Capacity ¾ bus. \$13.60.

No. 303. Tub 17¾ x 15½ in. Capacity 1½ bus. \$22.25.

No. 404. Tub 23¾ x 20 in. Capacity 3½ bus. \$34.50.

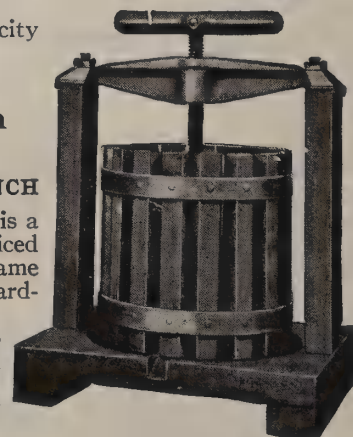


No. 0 Oasis Wooden Fruit Press

FOR USE ON TABLE OR BENCH

The No. 0 Oasis Fruit Press is a small, durable, reasonably priced wooden Press for home use. Frame is made entirely of selected hardwood; cross-head, semi-steel; die-cut steel screw; hardwood tub with extra-wide steel bands and beveled edged slats.

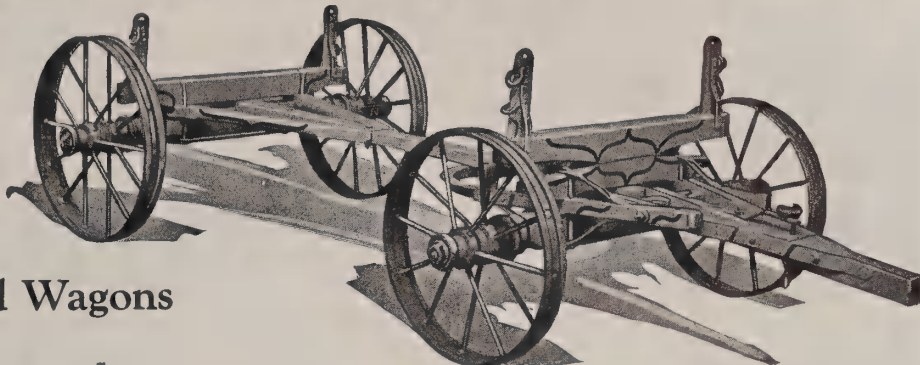
Tub 9 x 9¼ in. Capacity about 8 quarts. Price \$4.25.



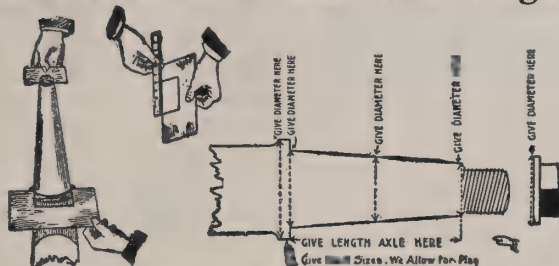
The Keystone Steel Wheel Farm Truck

The Keystone is carefully made of the best material—it is strong, convenient, and handy in every way. Axles are hickory fitted with $3\frac{1}{4}$ x 10-inch cast skeins. Gear parts are clipped, not bolted. Trussed axles. Round angle steel front hound, reinforced and strongly braced. All gear parts, with the exception of the axles, are made of select, thoroughly seasoned oak. Steel wheels are standard pattern with deep grooved tires with spokes staggered and forged solid in both tire and hub. Track 5 feet, center to center of tires. Bolsters 42 inches wide between standards. Standards 10 inches high, mortised into bolster. Wheels, 28-inch front, 32-inch rear, 4 x $\frac{3}{8}$ -inch grooved tire. Capacity, 4,000 pounds, for ordinary farm use.

Price, with gear brake, \$60. Doubletrees and Neckyoke, extra, \$4.50. (Brake and Doubletrees not shown in illustration.)



Steel Wheels to Fit Old Wagons



A set of Steel Wheels like those on the Keystone Farm Truck will turn an old wagon into a low, handy farm truck. In ordering, give measurements as shown in illustration.

Ready-Made Wheels

Furnished only in heights and tire size indicated and to fit any of the skeins listed below. All wheels have deep groove tires.

4 x $\frac{3}{8}$ -in. tire		4 x $\frac{3}{8}$ -in. tire	
24-in. height.....	\$3 75	32-in. height.....	\$4 75
28-in. height.....	4 25	36-in. height.....	5 50

Skein Sizes

Length	Large end Diameter	Small end	Collar	Nut
9 in.	3 $\frac{1}{4}$ in.	2 $\frac{1}{4}$ in.	5 in.	3 $\frac{3}{8}$ in.
10 in.	3 $\frac{1}{4}$ in.	2 $\frac{1}{4}$ in.	5 in.	3 $\frac{3}{8}$ in.
10 in.	3 $\frac{3}{8}$ in.	2 $\frac{1}{4}$ in.	5 in.	3 $\frac{3}{8}$ in.
10 $\frac{1}{8}$ in.	3 $\frac{3}{8}$ in.	2 $\frac{1}{4}$ in.	5 in.	3 $\frac{3}{8}$ in.

Made-to-Order Wheels

The following prices apply to other skein sizes than given above.

3 x $\frac{1}{2}$ -in. or 4 x $\frac{3}{8}$ -in. tire		3 x $\frac{1}{2}$ -in. or 4 x $\frac{3}{8}$ -in. tire	
26-in. height.....	\$4 90	32-in. height.....	\$6 00
28-in. height.....	5 25	34-in. height.....	6 25
30-in. height.....	5 50	36-in. height.....	6 75

Other heights and tire sizes quoted on request. Prices are for one wheel and are f.o.b. factory.

No. 4 Pony Wood Saw

This Saw is especially built for high power. Suitable for 3 to 6 horse-power engine. With 18-inch blade it will cut round wood 8 inches thick. Frame will admit 20-inch blade. Mandrel is 3 feet 5 inches long, 1 $\frac{1}{4}$ -inch diameter, fitted for blades with 1 $\frac{3}{8}$ -inch hole. Balance wheel is 12-inch diameter, weighing 30 lbs. Boxes 3 $\frac{1}{2}$ inches long; pulley, 5-inch face by 4 $\frac{1}{2}$ -inch diameter. Table securely hinged to frame. Weight 110 lbs. Price, with 18-in. blade, \$18.50. Ripping Table, as shown, \$4.25 extra.



No. 4 Wood Saw with Ripping Table

Catalogue and prices of larger sizes on request.

Clipper Grain and Seed Cleaner

The Clipper has no worthy competitor. The screen outfit is very complete for the work required and contains screens for wheat, oats, barley, rye, clovers, alfalfa, timothy, millet, flax, peas, beans, cowpeas, soy beans, grading seed corn, cleaning clover containing buckhorn, plantain or ripple, cleaning timothy seed containing pepper grass and sorrel, also separating corn from oats.



The No. 1-B Clipper Seed Cleaner

No. 1-B. Will clean from 10 to 20 bushels per hour. Furnished with twelve screens (each 19 inches wide and 22 $\frac{1}{4}$ inches long), hand crank and power pulley. Price \$44; with electric motor installed \$54.

No. 2-B. Capacity 15 to 25 bushels per hour. Furnished with twelve screens (each 25 inches wide and 22 inches long), hand crank and power drive pulley. Price \$49.50; with electric motor installed \$59.50.

No. 2-B Special. Consists of No. 2-B with bagging elevator. Price \$67; with electric motor installed \$82.

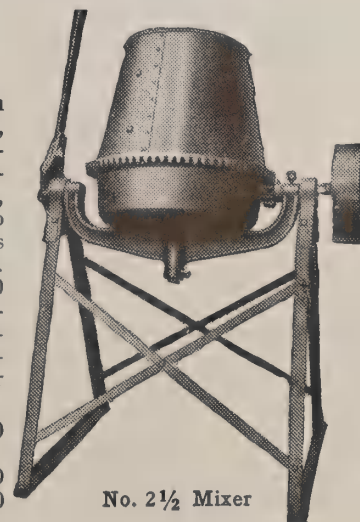
The Jumbo Concrete Mixer

These new models, simple in design, yet sturdy in construction, outclass any other similar equipment on the market today. Intended for handling by one man, the Jumbo Mixer has been so built that a minimum of effort is required for the mixing operation. They have a capacity of 20 to 30 cubic yards per day and the production can be increased approximately 25 per cent by use of engine power. A rugged Mixer for the farmer and contractor.

No. 2. Capacity 2 cu. ft. \$29 50

No. 2 $\frac{1}{2}$. Capacity 2 $\frac{1}{2}$ cu. ft. 38 50

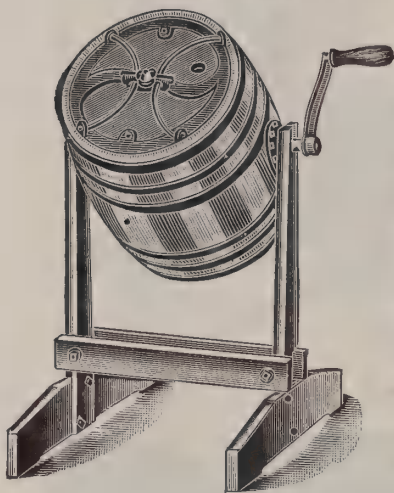
No. 3. Capacity 3 cu. ft. 59 50



No. 2 $\frac{1}{2}$ Mixer

Dairy Equipment and Supplies

The Favorite Barrel Churn



Made of the best quality of kiln-dried white oak, with galvanized iron rim in head.

The frame is substantially built and made of hard wood.

It works easily and is cleaned quickly, having no dashers or paddles. The churning is done by revolving the Churn, which agitates the cream and separates the butter from the milk.

	Total Capacity	Price
No. 0.	6 gallons.....	\$8 00
No. 1.	10 gallons.....	9 00
No. 2.	15 gallons.....	10 00
No. 3.	20 gallons.....	12 00
No. 4.	25 gallons.....	14 00
No. 5.	35 gallons.....	16 00

These Churns can be furnished with power pulleys, also in larger sizes. Prices on request.

Favorite Electric Barrel Churn

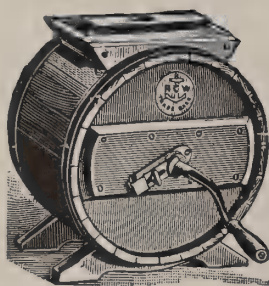
Same construction as Favorite Hand Churn described above. Equipped with 2 grooved pulleys, 2 V-belts, and $\frac{1}{4}$ h.p. 110-volt A.C. motor, and designed to operate at proper speed for churning. Complete with cord and plug ready for operation.

No.	Total Capacity	Price	No.	Total Capacity	Price
1E.	10 gallons.....	\$40 00	4E.	25 gallons.....	\$45 00
2E.	15 gallons.....	41 00	5E.	35 gallons.....	47 00
3E.	20 gallons.....	43 00	6E.	50 gallons.....	65 00

Churning capacity of all Barrel Churns about half their total capacity

Improved Cedar Cylinder Churn

The Improved White Cedar Cylinder Churn has a double dasher, and the crank is locked to the Churn with a clamp and thumb screw, which prevents leakage. Lock cannot break. The top is large, and dasher easily removed. Hoops are of galvanized iron and will not rust. The best Churn in use. All castings are heavily tinned. Churning capacity is given—actual capacity of Churn is slightly more.



No.	Churning Capacity	Price	No.	Churning Capacity	Price
No. 1.	3 gallons....	\$4 65	No. 3.	7 gallons....	\$6 45
No. 2.	4 gallons....	5 60	No. 4.	10 gallons....	7 50

White Cedar Staff Churns

These popular Staff and Dash Churns are made of selected, seasoned Virginia white cedar, and are bound with electric welded galvanized wire hoops. Fitted with handsome covers and hardwood staffs and dashers. Carefully made, sweet, hygienic, and very light. Measurement given is height of Churn.

	Churning Capacity	Price
16-in.	3 gallons.....	\$2 00
18-in.	4 gallons.....	2 25
20-in.	5 gallons.....	2 50
22-in.	6 gallons.....	3 00



Vega Cream Separator

Gets All the Cream, Easy to Clean, Durable and Efficient

The Vega will give many years of trouble-free service. It is the only Cream Separator made that guarantees the lugs on the discs will not break, crack, or come off for 10 years, and that you will not need to add an extra disc to the bowl for 5 years. Vega bowls are perfectly balanced from top to bottom, lighter in weight and turn easier than any other Separator, size for size.

Vega discs are unnumbered and can be put on in any order. The lugs are electrically spot-welded on the discs, and all tinware is made of the finest grade of specially treated Swedish steel, properly tinned, and found to be the best acid-resisting metal for Cream-Separator use. All moving parts are enclosed in a dust-proof housing, and the lubrication is positive and automatic.

Vega is simple in construction, good appearing, with fewer moving parts than other Separators, which means long wear. It is easy to clean and easy to keep clean. The bowl can be taken apart and assembled in from 2 to 4 minutes.

Model A3. 150 lbs. and up per hour.....\$27 50

Model B3. 225 lbs. and up per hour.....34 00

Model F3. 350 lbs. and up per hour.....49 75

Above are table models without stands.

Model F3. 350 lbs. and up per hour.....\$57 00

Model G5. 500 lbs. and up per hour.....78 50

Model L5. 750 lbs. and up per hour.....95 00

Model M5. 1000 lbs. and up per hour.....105 00

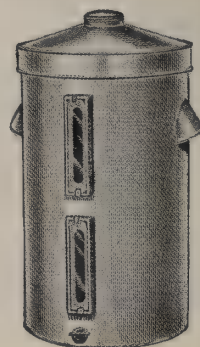
Above are hand-powered and complete with stands.

Models G, L, and M can be converted into power drives by attaching either a gasoline engine or electric motor at very low cost.

SEPARATOR OIL. Prepared especially for hand separators. 1-qt. can 35 cts., 1-gal. can 85 cts.

Star Cream Separator

Made of the best bright charcoal tin plate and constructed with a deep concave bottom, allowing every particle of milk to be drawn off before the cream reaches the faucet without their being mixed. The milk thus flows downward out through a crooked neck or elbow faucet located underneath the gauge. It is operated by introducing cold water or ice into the milk—about equal parts. Has reversible combination cover, strainer, and aerator.



Price with Cover

No.	Capacity	Quarts	Price	No.	Capacity	Quarts	Price
0.	1 cow	24...	\$3 50	2.	3 to 4 cows	68...	\$4 95
1.	1 to 2 cows	48...	4 60	3.	6 to 8 cows	118...	6 25

Standard Glass Churns

Makes butter for home use in from 8 to 10 minutes. Ideal for making your own good wholesome buttermilk, also for mixing cake ingredients, beating eggs, and whipping cream. Has heavy flint-glass jar, 4-blade hard maple dasher, and heavily plated screw-top. Strainer in top permits pouring off the buttermilk without removing the top. Replacement jars can be furnished.

	Postpaid
2-quart.....	\$1 60 \$1 80
4-quart.....	2 50 2 75
6-quart.....	3 00 3 25
8-quart.....	3 75 4 05



Follansbee Forge Milk Cans

Minnesota Pattern. Made of Follansbee forge steel with an extra-heavy coating of pure tin. Welded breast and side seams.

	Neck	Each	Doz.
5-gal.	6 ³ / ₁₆ -in.	\$4 40	\$48 00
8-gal.	7 ¹ / ₄ -in.	5 20	57 60
10-gal.	7 ¹ / ₄ -in.	5 40	60 00

Umbrella Cover for Minnesota pattern in place of Sunken Cover, add 20 cts. per can. Half-Dozen Cans at Dozen Rate.

Name-Plates for Milk Cans. Brass Name-Plates soldered on can, limit three lines, twenty letters per line, 15 cts. each; doz. or more, \$1.20 per doz.



Lisk Milk Cans

Charcoal tin body and bottom; one-piece retinned breast. Malleable ears and heavy tinned wire bail.

	Each	Postpaid	Doz.
P-2504. 1 gallon.....	\$1 20	\$1 35	\$13 00
P-2508. 2 gallons.....	1 50	1 65	16 25
P-2512. 3 gallons.....	1 90	2 10	20 50
P-2520. 5 gallons.....	2 65	2 85	28 50



Owen-Illinois Milk Bottles

Owen-Illinois Milk Bottles are made of the highest strength glass obtainable and are guaranteed to conform with state laws.

	Doz.	1/2 Gross	Gross
Quarts.....	\$0 85	\$4 25	\$7 75
Pints.....	70	3 35	6 05
Half-Pints.....	65	2 85	5 10
Quarter-Pints.....	65	2 85	5 10

Five-gross lots 25 cts. per gross, 10-gross lots 50 cts. per gross, and 25-gross lots 75 cts. per gross less than above prices.

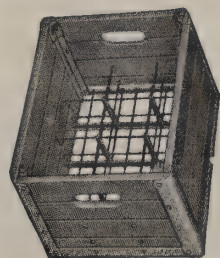
Name-Plates \$2.50 for each size. One plate free on orders for 5 gross; 2 plates free on orders for 10 gross. If customer has lettered bottles we will duplicate the Name-Plates without charge provided a sample bottle or rubbing of the lettering is submitted. All lettered Bottles f.o.b. factory, with freight allowance of 50 cts. per gross. Plain Bottles f.o.b. cars, Pittsburgh.



Perfection Milk Bottle Basket

Perfection Baskets are made up of plain annealed bands, galvanized to prevent rusting. They have extra-heavy top and handle made to last a lifetime.

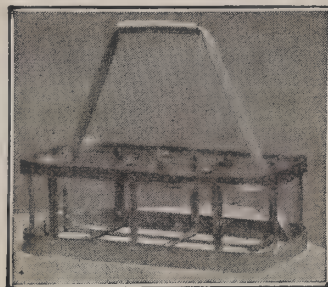
	Each	Postpaid	Doz.
6-quart....	\$1 25	\$1 35	\$13 50
8-quart....	1 35	1 45	14 50



Armor-Klad Bottle Cases

Armor-Klad Cases are strongly built and of exceptionally fine construction.

Slats made of selected northern hard maple. Metal parts are of tight coat galvanized iron. End and side runners are extra heavy and channeled to fit snugly to rabbeted slats. No. 11A. 12-qt. case, \$1.90. No. 21B. 20-pt. case, \$1.85. No. 31A. 20-half-pt. case, \$1.90. No. 31B. 30-half-pt. case, \$1.95. 10 cases or more, 10 cts. per case less. Prices are not prepaid.

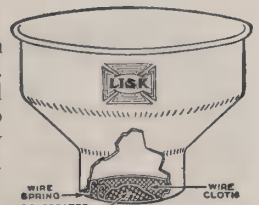


Milk Strainers

No. 1934. Seamless, body and foot drawn from one piece of metal and retinned. Wire cloth soldered on bottom and equipped with reversible wire band, to hold cloth or to act as a stand. Sanitary and easy to clean. Capacity, 4 quarts. \$1.10, postage 10 cts. extra.

No. 1834. Same design and capacity as No. 1934, but not retinned. 65 cts., postage 10 cts. extra.

No. P19512. Seamless and sanitary soldered. Furnished with bottom cut out and equipped with removable flat perforated tin disc, convex perforated tin disc, and spring wire. Cotton pads are used between the discs and are furnished at extra charge. Capacity, 12 quarts. \$1.65, postage 25 cts. extra.



No. P19512

Banco Milk Filter Discs

Made of thinly rolled, non-absorbent cotton especially for the purpose. Filters quick, clean, and uniform.

Plain Discs, 6-in. diam., pkg. of 100, 30 cts.; pkg. of 300, 85 cts.; 6¹/₂-in. diam., pkg. of 100, 40 cts.; pkg. of 300, \$1.10.

Thread-faced Discs, 6-in. diam., pkg. of 100, 60 cts.; pkg. of 300, \$1.70; 6¹/₂-in. diam., pkg. of 100, 65 cts.; pkg. of 300, \$1.85. Postage 10 cts. extra on package of 300.

Lisk Dairy Pails

No. 5212. 12-qt., sanitary solder... \$0 90

No. 5214. 14-qt., sanitary solder... 1 00

No. 7512. 12-qt., seamless..... 2 60

No. 7514. 14-qt., seamless..... 2 75

No. 14212. 12-qt., Strainer Pail.... 1 75

No. 14214. 14-qt., Strainer Pail.... 1 85

The Seamless Pails are absolutely sanitary. No seams or rivets in the entire pail. Heavily retinned. Welded ears. Heavy steel band on bottom. Heavy steel bail. Complies with all dairy laws.



Hardwood Butter Bowls

Made from selected Michigan hardwood; paraffin wax finish. Extra deep; heavy rimmed. 15-in. \$1.60; 17-in. \$2; 19-in. \$2.25.

Butter Moulds

These Moulds are made of the best grade of sugar maple. Made in 1-pound size.

No. 20. Round Pattern. Sheaf Design or Cow Design. 45 cts.; postpaid 55 cts.

No. 10. Oblong Pattern. Made with mortise and tenon corner joints. Extremely durable. 45 cts.; postpaid 55 cts.

WOOD BUTTER LADLE. Made from one piece of hard maple. 5-in. by 10-in., 20 cts.; postpaid 25 cts.

Osborn Dairy Brushes

Hand Bottle Brushes

No. 86. Prepared stiff bristle, 2³/₄-in. diam., 6 in. long; handle 9³/₄ in. long; wire-wound. 95 cts., doz. \$10.25.

No. 72. Black China bristle. Same size as No. 86. 65 cts., doz. \$7.

No. 124. Stiff horse hair, 2³/₄-in. diam., 6³/₄ in. long; handle 9 in. long; wire-wound. 70 cts., doz. \$7.50.

For Machine Washer

No. 125. Turbine. 65 cts., doz. \$7.

No. 100. Brush for cleaning outside of bottles. \$1.

No. 101. Brush for cleaning inside of bottles. 70 cts.

Set of 1 No. 100 and 2 No. 101 Brushes, \$2.15.

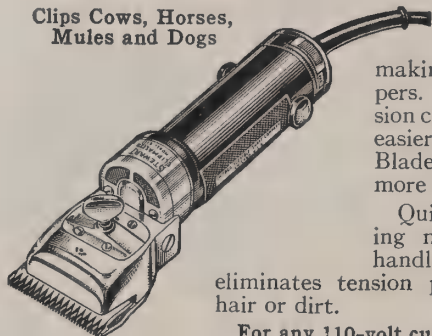
Palmetto Milk Can Brush

No. 08. Palmetto fibre; width of face 5 in., length of face 9¹/₂ in.; solid block. Made of an excellent grade of durable fibre, very full, with flaring wings. 55 cts., doz. \$6.

Stewart Clipping and Shearing Machines

Latest Model 51 Clipmaster

Clips Cows, Horses,
Mules and Dogs



Here is the greatest advance in 50 years of making the world's best clippers. New anti-friction tension control runs cooler, lighter, easier. Clips faster, better. Blades stay sharp longer, do more clipping per set.

Quiet, powerful, ball-bearing motor inside composition handle. New pin-type drive eliminates tension plate—cannot clog with hair or dirt.

For any 110-volt current, AC or DC, complete with 20-foot rubber-covered cord and plug.

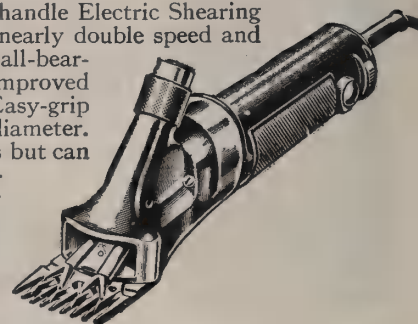
No. 51. \$19.95. Same as above, for special voltages, \$21.95.

New Improved No. 31 Shearmaster

New improved motor in handle Electric Shearing Machine. Motor develops nearly double speed and power of former models. Ball-bearings instead of bushings. Improved E-B tension control. Easy-grip handle just 2 inches in diameter. Designed for sheep or goats but can be used for clipping by changing the bottom blade or comb for No. 4-HC clipping blade listed below.

For 110-volt current, either AC or DC, complete with 2 combs, 4 cutters, and 20-foot special rubber-covered cord.

No. 31. \$24.95. Same as above, for special voltages, \$26.95.



SHEARING MACHINES ARE FOR SHEARING SHEEP OR GOATS—CLIPPING MACHINES FOR COWS, HORSES, AND MULES

Stewart HAND-OPERATED Clipping and Shearing Machine

For Clipping—No. 1

Where electricity is not available, this is the most satisfactory Clipping Machine. Built sturdy and strong for years of use. Complete with 6-foot flexible shaft and chain, latest patented D-1 clipping head including one set of blades. Shipped complete, knocked down, in wooden box. No. 1. \$13.45.

For Shearing—No. 9

Special gears make this Stewart Machine the easy way to shear sheep and goats. Universal jointed cog-driven shaft with light-running, ball-bearing No. 7 narrow handpiece complete with two combs, four cutters. Shipped complete, knocked down, in wooden box. No. 9. \$23.50.



No. 9

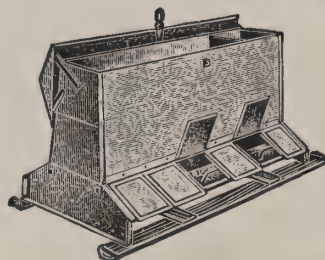
Extra Blades for Shearing

- No. 276. Three-tooth top plate or cutter for No. 9. 30 cts.
- No. 4-HA. Four-tooth top blade or cutter for Shearmaster. 35c.
- No. 277. Ten-tooth bottom blade or comb for No. 9. 80 cts.
- No. 4-HB. Nine-tooth bottom blade or comb for No. 31. 75 cts.
- No. 4-HC. Bottom blade for No. 31; for use in clipping only. \$1.50.

Extra Blades for Clipping

- No. 360. Top blade for B-1 clipping head only. \$1.35.
- No. 361. Bottom blade same as above. \$1.85.
- No. 90. Top blade for C-1, D-1 or D-2 clipping heads. \$1.35.
- No. 99. Bottom blade same as above. \$1.85.
- No. E-1. Top clipping blade for J-1 and J-2 Clipmaster only. \$1.35.
- No. E-2. Bottom blade same as above. \$1.85.
- No. C-71M. Top blade for Model 21 Clipmaster. \$1.35.
- No. 72-M. Bottom blade same as above. \$1.85.
- No. 83AU. Top Blade for Model 51 Clipmaster. \$1.35.
- No. 84AU. Bottom Blade same as above. \$1.85.

Oakes Hog Feeders



SELF-FED
HOGS
GAIN
WEIGHT
FASTER

Made of heavy-gauge galvanized steel throughout with strongest possible bracing. Sloping sides, V-shaped bottom and feed agitators, which hogs root as they eat, prevents clogging. Hinged lid permits filling from either side. Self-closing covers keep out rain and other livestock. Hogs lift covers with snout, and eat. Adjustable throat for various ground feeds.

	Length	Capacity	Price
No. 421	4 ft.	20 bus.....	\$26 40
No. 431	6 ft.	30 bus.....	33 40
No. 441	8 ft.	40 bus.....	43 20
No. 451	10 ft.	50 bus.....	52 40

Available with skids at slight extra cost.

No. 420. Suitable for 10 to 12 hogs or for supplement feeding of pigs on pasture. Mounted on 2 x 4 wood skids. 25 in. wide. Capacity 5½ bus. \$10.60.

All prices are f. o. b. factory

Oakes Circular Pan Fountain

SUITABLE
FOR
HOGS,
SHEEP
or
TURKEYS



Twelve large hogs can drink at one time with plenty of room for each hog. Strap-iron stanchions prevent fighting. Single wall drum easily lifted out for cleaning the pan. Drinking-pan 41¼ in. diam., 5 in. deep, edge reinforced by 1 in. angle iron. Tank has depressed top with 3-inch opening and brass screw cap for easy filling. Brass outlet plug. Double lock-seamed top and bottom. Overall height 40 in. Capacity, 100 gals. A portable, heavy-duty hog-waterer that soon pays for itself in rapidity of hog-growth.

No. C95. \$19.60, f. o. b. factory.

Oakes Twin-Cup Hog Fountain

PROVIDES
ALL-
SEASON
WATERING



Double-wall construction, keeps water cool in summer; lamp heaters keep water from freezing in winter. Water supply controlled by adjustable valve and copper float. Inner tank and outer casing are heavy-gauge galvanized steel, with 1½ inches clearance for circulation of heated air. Inner tank lifts out for easy cleaning. Fills at top. Hinged lids on drinking cups. Two lamps with chimneyless burners provide adequate heat even in sub-zero weather. Each lamp burns 30 hours with one filling. Over-all height 44 in.; diameter 30 in. Capacity 78 gals. No. C-74. \$25, f. o. b. factory.



Ney Dairy Barn Equipment

Ney No. 1 Stanchion

Unquestionably the best Stanchion ever placed on the market. Made without springs, the folding, over-center toggle locks it securely when closed and ties it together at the top when open. Frame high carbon T-bar steel with seasoned hardwood lining. Other parts malleable iron, connecting links of steel. Width adjustable, 7 to 8½ inches. \$4.50 each.

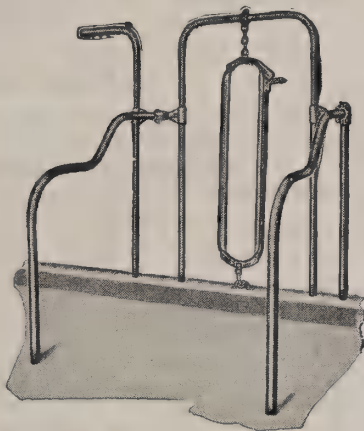
Ney No. 5 Stanchion

In general somewhat similar to the No. 1, but lighter, and has no malleable iron parts. Frame U-bar, lined with hardwood. A good low-priced Stanchion. (Not illustrated.) \$2.80 each.

No. 5 Unlined. \$2.40 each.

Ney No. 75 Arch Type Stall

A strong, practical Stall. One-piece arch units are joined together in the Stall-row by cross-braces to which the Stall partitions are connected. Made of stiff, high-quality steel pipe or tubing, 1½ inch outside diameter; fittings are steel and certified malleable iron. Height of unit over all, 5 feet 8 inches; width, center to center, 30 inches. Stalls may be varied in width from standard, 3 feet 6 inches, up to 4 feet by using cross-braces of different lengths. Price without Stanchion, \$7.90; with No. 5 Stanchion, \$10.70; with No. 1 Stanchion, \$12.40. Extra End Section, \$4.40.



Ney Water Bowls

The best and most ruggedly constructed Water Bowl ever offered to the dairy industry. Made of special close-grained cast-iron with a minimum of working parts. Has removable solid brass valve. Nose lever will stand tilted up to simplify removing chaff, etc., from Bowl. No. 15, \$3.50 each. No. 4, Part brass valve, \$2.80 each.

Ney Litter Carriers

- No. 1. Has eight roller-bearing track wheels, worm-driven hoisting gear, and extra-strong galvanized steel tub. Price, with 8- to 10-bus. tub, \$58; with 10- to 12-bus. tub, \$60.
- No. 2. Practically same as No. 1 Litter Carrier, except it has only four 4½-inch track wheels instead of eight. Price, with 8- to 10-bus. tub, \$50; with 10- to 12-bus. tub, \$52.

Improved Champion Milk Cooler

A perfect aerator, removing all feed-odors and animal heat while the milk is being cooled. It reduces the temperature of the milk instantly nearly to the temperature of the cooling medium and is as easily cleaned as a pail. Takes only ½-inch stream of water to operate, but can be used without running water. The milk flows over the cooling surface in an even film and cooling is sure and certain.

The following sizes will take care of the milk as fast as drawn with the average number of milkers. Get one large enough.

Capacity milk receiver	Size of dairy	Takes care of	Price
No. 2 18 qts.	1 to 25 cows.	3 milkers.	\$10 00
No. 3 34 qts.	25 to 50 cows.	5 milkers.	12 00
No. 4 52 qts.	50 to 100 cows.	8 milkers.	15 00



"O & S" Dairy Boiler

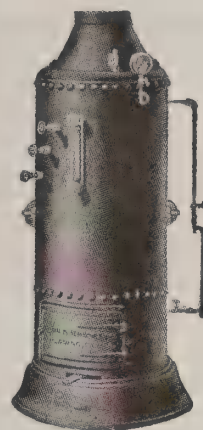
Designed especially for farm use, such as cooking feed, steaming milk-cans, and heating water. It is built in accordance with the A.S.M.E. Code and good for 100 pounds steam pressure.

The trimmings include base, shaking-grates, hood, safety-valve, gauge-cocks, steam-gauge, water-gauge, blow-off valve, check-and stop-valve, and injector with piping.

SPECIFICATIONS

Diameter of Boiler, inches.	20
Height of Boiler, inches.	40
Number of 2-inch Tubes.	10
Length of Tubes, inches.	26
Height over all, inches.	59
Weight complete, pounds.	550

Price, \$110.30



"Farmer's Favorite" Boiler and Sterilizer

It can be used for a great variety of purposes, such as cooking feed, heating water, sterilizing dairy utensils, rendering lard, scalding hogs, boiling spraying mixture, etc.

Top section, or boiler, is made of heavy galvanized steel, which fits securely into lower section, or furnace. The furnace is made with cast-iron ends and the center, or body, of heavy steel plate. The firebox is the length of the Cooker. It may be used indoors as well as outdoors.

No. 2. 30 gals.	\$19 20	No. 4. 50 gals.	\$24 00
No. 3. 40 gals.	21 60	No. 6. 100 gals.	30 00

Prices f.o.b. factory. Faucet to draw off liquid, attached, extra \$1.50. One length of 6-in. stove-pipe and elbow included with Cooker.



Specialty Hand Bottle Filler

The dairyman who bottles from 50 to 200 bottles of milk, cream, or butter-milk daily will find this Filler a saver of time, labor, and money. The Filler is made entirely of metal and will give perfect performance for many years. It is perfectly smooth inside and out, and washing it is a matter of but a few seconds. Fills bottles quickly and accurately and works on any size bottle. Price, \$9.



Rotary Hand Bottle Capper

SANITARY—SIMPLE—FAST

If you are selling bottled milk, you cannot afford to be without one of these improved Cappers. It is faster and more sanitary than the old-fashioned "thumb and finger" method. Easy to operate; nothing to get out of order; always ready for immediate use. Conforms with all sanitary law requirements. Uses No. 2 standard bottle caps.

All working parts are case hardened and work on ball bearings. Extremely simple to clean. Weighs 8¼ pounds. Price, \$18, postpaid.

Catalogue and Price-List of larger Bottle Fillers and Cappers on request



Ask for catalogue of Ney Barn Equipment, showing a complete line of Barn Equipment



Pilling Milking Tubes

For sore and obstructed teats and hard-milking cows.

Can be made any length by moving the adjustable slide; can also be used for a probe to pass the obstruction. 2 1/4-inch 75 cts., 2 3/4-inch 90 cts., 3 1/4-inch \$1.05, 3 3/4-inch \$1.20, 4 1/4-inch \$1.35, postpaid.

Pilling Hard-Rubber Teat Plug

Designed to prevent dropping of milk in cows where there is a relaxation of the little muscle at the end of the teat and consequent leakage of milk as soon as enough pressure accumulates in the udder. 75 cts., postpaid.

Pilling Teat Expander

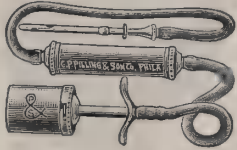
Intended to expand and enlarge the opening of hard-milking teats. It also expands the milk canal at the same time. Easy to use. Made of metal and nickel plated. 65 cts., postpaid.

Purpul Wax Teat Dilators

First open teat with a metal dilator, probe or milk tube, then keep a Wax Dilator in teat between milkings. 25 cts. per pkg. of 18, postpaid; \$1 for 7 doz., postpaid.

Pilling Teat Opener

Used as a reamer or dilator to pass the obstruction. It does not cut the obstruction. \$1, postpaid.



Pilling Milk Fever Outfit

Made according to specifications of the U. S. Department of Agriculture, except it is made with patented metal pump instead of rubber bulb. Price with metal pump and regulator tube, \$3.85.

Prices on other Cattle Instruments on request. Send for booklet.



"Kant Suk" Calf and Cow Weaner

Being made with a hinge joint, it swings out of the way when the calf eats or drinks, but effectually prevents sucking. It is heavily tinned, sanitary, and humane.

	Postpaid	
No. 1055. Calf size..	\$0 50	\$0 55
No. 1055 1/2. Yearling size.....	60	65
No. 1056. Cow size..	70	75

"Pierceasy" Bull Rings

Made of the best materials obtainable. The long, sharp point cuts a clean hole. No tools necessary.

Bronze Rings		Copper Rings	
No. RB1. 2 3/4 x 5/16 in....	\$1 25	No. 10. 2 3/4 x 5/16 in....	\$0 40
No. RB2. 3 x 3/8 in....	1 75	No. 53. 3 x 3/8 in....	55
No. RB3. 3 1/2 x 7/16 in....	2 00		

"Bullchane" Pacifier

Subdues most vicious animal. The animal in stepping on the loose end of the chain will divert its attention. Bull can be turned out to graze and be safely approached when wanted. \$2.25.

Tie-Out Chains

Made with large swivel malleable iron stake ring, swiveling snap, and a swivel in the center.

20-ft. Chain, 65 cts.; 30-ft., 90 cts.; postage 10 cts. extra.

COW TIES. For stable use. Well made with two toggles. 40 cts. each, postpaid 50 cts.

Paterson Genuine Vegetable Parchment

It is insoluble, having no taste or odor, and is moisture-proof and grease-proof. The nationally advertised wrapper for butter, cheese, lard, smoked or fresh meats, fish and other food products.

	8 x 11 in.	9 x 12 in.
1,000-sheet boxes, plain, no printing.....	\$1 60	\$1 95
1,000-sheet boxes, printed "1 lb. net".....		3 50
250-sheet boxes, plain, no printing.....	50	60

Sealright Milk Bottle Caps

Sealright Caps are made from the new, improved Fulton Board, and are thoroughly waxed with a special process that drives the wax into the board. This fact, along with clear, sharp printing and clean-cut edges, makes Sealright the perfect Milk Bottle Cap. They are guaranteed to work in capping machines.

Sealright New Liftright Cap

Has strong tab that lifts at the touch of the finger. Ideal Cap for general use.

No. 2 size. Packed in tubes, 500 Caps each.

Stock printing.	Postpaid	Prepaid
500 caps... \$0 45	\$0 55	25,000 caps.....\$15 00
1,000 caps... 80	90	50,000 caps..... 28 00
5,000 caps... 3 25	3 50	
Printed to order.	Prepaid	Prepaid
5,000 caps.....\$5 60		25,000 caps.....\$16 50
10,000 caps..... 9 20		50,000 caps..... 30 00

Sealright Standard Cap

This is the regular plug-type cap. Made from Fulton Board and of the same high quality throughout as all Sealright Caps.

No. 2 size. Packed in tubes, 500 Caps each

Stock printing.	Postpaid	Prepaid
500 caps... \$0 40	\$0 50	25,000 caps.....\$13 50
1,000 caps... 75	85	50,000 caps..... 25 00
5,000 caps... 3 00	3 20	
Printed to order.	Prepaid	Prepaid
5,000 caps.....\$5 30		25,000 caps.....\$15 00
10,000 caps..... 8 60		50,000 caps..... 27 00

All Caps sent in with orders will be duplicated free of charge provided an exact duplication is desired. If there are any changes in the wording or the design, and on all new designs, an electro charge of \$1.25 for one color and \$2 for two colors will be made on type-set designs.

Caps printed to order are shipped direct from factory and transportation charges prepaid at prices quoted.

Dairy and Milk Scale

These Scales are made with loose pointer which can be regulated on dial by thumb-nut at center to take up tare of pail or can. Figures and graduations in black and red on white enameled steel. Red figures used for second revolution of pointer. Heavy steel metal back. 7-inch lithographed dial; tinned hook. Adjusted by screw on bottom of slide.

No. 224. Capacity 40 lbs. by 1-10 lb.....	\$3 00
No. 226. Capacity 60 lbs. by 1-10 lb.....	3 50



Dairy Thermometer

Glass cylinder; mercury-filled tube; 10 1/2 inches long. No. 2103. 85 cts. each. Postage extra, 10 cts.

Safety Bull Staff



Constructed of 1 1/8-inch O. D. extra-heavy steel pipe with malleable lock-hook. Can be operated from two places. To hook the nose-ring into the Staff, pull on the slide-ring near the head of Staff; to release, pull on the snap-ring in handle of the Staff. Length 4 ft. 9 in. Weight 8 lbs. \$3.50, postpaid.

Genuine African Bass Stable Brooms

No. 286D. Solid block 14 in. long; length of stock 5 1/4 in., clear, 4 rows; complete with handle. \$1.40.

No. 500. Solid block 16 in. long; length of stock 7 1/4 in., clear, 5 rows; complete with handle. \$1.90.



Old Hickory Smoked Salt

Gives That Genuine Delicious Hickory Flavor to Meats

The "Plain" Smoked Salt is the original and only genuine Smoked Salt—a fine-quality Salt actually smoked with genuine hickory wood smoke.

It is most dependable. In half the time and with half the labor you can cure and smoke your own meats—without the loss from smokehouse shrinkage. The rich, natural meat juices and tasty fats are all retained, and every piece of meat is cured and flavored uniformly clear *through to the bone*.

The "Sugar Cure" Smoked Salt is prepared for those who prefer a blended mixture of Old Hickory Smoked Salt, pure granulated sugar, and Chilean saltpeter in proportions that have been proved most popular. Ready to use—no other mixing necessary.

Plain. 10 lbs. (enough to cure 115 lbs. of meat) \$1.
Sugar Cure. 9 lbs. (enough to cure 110 lbs. of meat) \$1.

Morton's Sugar-Cure

For Hams and Bacon

A high-grade meat salt, accurately proportioned and scientifically blended with marvelously balanced Sugar-Cure, select spice flavors and the curative and flavoring properties of refined condensed wood smoke. Every ingredient necessary to cure meat and impart to it delightful flavor is combined with the salt. This improved Sugar-Cure does the entire job. 2½-lb. can 25 cts., 10-lb. can \$1.

Morton's Tender-Quick

A special meat cure for pumping hams and shoulders and curing beef, veal, mutton, lamb, etc. It is so perfectly blended that it cures faster, improves the flavor, and makes more tender cured meats. 2½-lb. can 50 cts., 10-lb. can \$2.

Morton's Meat Pump. Should be used to get a uniform cure from the rind to the bone. \$1.50.

Morton's Meat-Curing Thermometer. Provides a definite gauge to guide you all through the curing process. \$1.

Morton's Sausage Seasoning

Ready for use and makes delicious sausage. 10-oz. can 25 cts.

Wright's Condensed Smoke

Since 1895, Wright's Condensed Smoke has been used for smoking all kinds of meat, fish, and game. It is quickly and easily applied with a cloth or brush. Warranted pure and wholesome. One pint properly smokes 150 pounds of meat. 1-pt. 65 cts., 1-qt. \$1.

Blackman's Medicated Lick-A-Brik

Conditioner and tonic for horses, mules, cows and sheep. Easy to use—just keep one in the feed-box all the time. 25 cts. per brick, \$2.75 per doz., \$5.25 for 2 doz.

Keystone Pure Salt Bricks

Practical dairymen and live-stock feeders know that live-stock like and want salt. Cattle and horses will be more thrifty and more healthy if given the proper amount of salt in their rations.

Place the Salt Bricks in the feeders built especially for them where the stock can have access to them at all times. They are of pure, unadulterated salt.

25 cts. per Brick; doz. Bricks \$2.75; 2 doz. Bricks \$5.25. Feeder, 50 cts. each.

Sal-Vet

Live-Stock Conditioner and Tonic

Rids live-stock of worms, gives them keener appetites and better digestion, promotes growth, and keeps them in healthy condition. A mineral compound for swine, cattle, sheep, horses and mules.

5-lb. pkg. \$0 75 50-lb. bag. \$4 50
10-lb. pkg. 1 20 100-lb. bag. 7 50
25-lb. pkg. 2 50

Salt Blocks

In 50-lb. block; pure salt 60 cts. each, iodized 85 cts. each.

Perfection Dairy Salt

10-lb. sack 25 cts., 25-lb. sack 50 cts., 280-lb. bbl. \$4.

B-K Dairy Bactericide

A fast-acting chlorine bactericide used for treating dairy utensils and milk-plant equipment to kill bacteria. It aids in producing milk of low bacteria count, thus increasing quality, which brings better prices. It works faster, more cheaply, and more thoroughly than dry heat, hot water, or steam as ordinarily used. It does the job in hot or cold water.

B-K POWDER

9½-oz. bottle ... \$0 75 | 1½-lb. bottle. \$1 50

B-K LIQUID

4-oz. bottle. \$0 30 1-gal. bottle. \$2 00
10-oz. bottle. 50 5-gal. jug. 8 50
1-qt. bottle. 90

HTH-15 Farm Sterilizer

Here's a sterilizer that makes it easy to keep bacteria counts down and protect your milk-quality. HTH-15 is a dry, free-flowing powder packed in handy, key-opening cans. One measuring-spoonful of the dry powder makes 3 gallons of effective dairy-rinse that is safe to use on milk equipment.

You can also check the spread of respiratory and other diseases of poultry by using HTH-15 in the drinking-water, to disinfect brooders, incubators, pens and other poultry equipment. 1-lb. can 50 cts., 3-lb. can \$1, case of 6 3-lb. cans, \$5.

Wyandotte Cleaner and Cleanser

An efficient but harmless cleaner made purposely for washing milk utensils and containers. It contains no soapy grease, makes no soapy suds, nor resembles soap agents in any way. Used by thousands of farmers and dairymen everywhere.

5-lb. sack 45 cts., postage 15 cts. extra. 80-lb. keg \$4.85, 280-lb. bbl. \$13.50, f.o.b. Pittsburgh.

K-O Live-Stock Fly Spray

10 per cent Milk Loss Avoidable

Careful experiments have demonstrated that fly-annoyance reduces milk-production. Knox-Out is an efficient killer and a repellent fly-spray. K-O is not gummy or sticky. It will not stain cows or clothing; it does not irritate the eyes or hands of the milkers. K-O has a light, pleasant odor, and does not taint milk.

1 gal. \$1 20 30 gals. \$28 05
5 gals. 5 40 50 gals. 44 00

Conkey's Fly Knocker

Every stockman, every dairyman needs Fly Knocker. Don't let flies torment your horses; don't let them worry your cows. Cows give more milk and butter-fat and horses work easier when you save their energy by keeping off those winged pests. Qt. 45 cts., gal. \$1.15, 5 gals. \$5.

Dr. A. C. Daniels' Horse Medicines

Colic Drops. For colic.	Postpaid \$1 30
C. C. & F. Drops. Coughs, colds, and fevers.	65 cts. and 1 30
Horse Conditioner. A condition powder.	65
W. K. Powders. An aid in expelling worms.	65
Wonder Lotion. Scratches, wounds, and cuts.	65
Gall Salve. A relief for saddle and harness sores.	35 cts. and 65
Antiseptic Healing Powder. For sores, cuts, and wounds.	50
Hoof Ointment and Softener.	65
Oster Cocus Liniment. Cord and muscle liniment.	35 cts. and 65
Spee Dee Track Liniment. For strained tendons, sore muscles, and a general rub-down.	Gal. \$7.50.
Pine-Oil Disinfectant. A fragrant deodorizer.	50
Gal. \$2.50.	

Fiebing's Saddle Soap

The best preparation for cleaning saddles and all articles of brown leather. 12-oz. tin 35 cts.

Fiebing's Harness Soap Dressing. Oils, softens, and preserves all articles of black leather. 1-lb. tin 40 cts.

Since 1908 Corona Since 1908

Antiseptic Ointment for Cows and Horses

Every farm, dairy, and high-class stable will find CORONA indispensable for minor skin injuries and irritations. Contains ODORLESS antiseptic. IDEAL for chapped, cracked teats and udders, barbed-wire cuts, galled bruised shoulders, snags, scratches. Soothing—softening. 8-oz. can 65 cts., 20-oz. can \$1.30, 5-lb. can \$4.

Kow-Kare

This great tonic and conditioner supplies invigorating elements needed by freshening cows, promotes digestion and assimilation. Give KOW-KARE with the feed to promote vigor for low-cost production and cow health.

\$1.25 and 65-ct. sizes; 6 large cans \$6.54, postpaid.

Bag Balm

For Udder and Teats

Never be without this antiseptic ointment for quick healing of tender tissues. A potent aid in treating caked bag, inflammation, exterior teat and udder troubles, and all farm healing.

10-oz. package 60 cts., postpaid.

Bag Balm Teat Dilators

For spider, scabs, bruises, internal injuries, hard milkers. Smooth, ivory-like, cannot irritate or absorb pus infection.

Package of 25, 60 cts., postpaid.

Dr. Hess' Stock Tonic

Used with success for more than 40 years, and now improved in keeping with latest tested and proved feeding practices. Minerals needed by heavy-producing dairy cows have been increased; whets appetite; sustains milk-flow well through lactation period. Valuable at calving-time; increases profits from steer-feeding, and puts horses and mules in condition.

1½-lb. pkg. \$0 25 15-lb. pkg. \$1 90
3-lb. pkg. 45 25-lb. pkg. 2 85
7-lb. pkg. 95 100-lb. drum. 9 40

Pratt's Animal Regulator

A tonic for Horses, Cattle, Sheep, and Hogs. Pkgs. 25 cts., 50 cts., and \$1, postpaid. 25-lb. pail \$3, postpaid \$3.37.

Pratt's Cow Tonic

A regulator and medicinal tonic. Pkgs. 50 cts. and \$1, postpaid. 25-lb. pail \$4.50, postpaid \$4.87.

Pratt's Hog Powder

A digestive tonic, bowel regulator, worm-expeller, and fattener. Pkgs. 50 cts. and \$1, postpaid.

Dr. Hess' Dip and Disinfectant

Kills foul odors. For sheep-, horse-stables, dairy-barns, hog-pens, poultry-houses, dog-kennels, and general disinfecting. 1-qt. can 55 cts., 2-qt. can 80 cts., 1-gal. can \$1.40, 5-gal. can \$6.50. Not prepaid.

Calves' Cordial

An effective intestinal astringent for Cows and Calves. 1-lb. pkg. 50 cts.



Common-Sense Calf Feeder

This is a device that is of great assistance to farmers in raising good calves. It is equipped with a nipple so that the calf gets the milk in the way nature intended. It is so made that the calf cannot upset the pail and waste the milk.

Single Feeder \$2. Double Feeder \$3.

Kan't-Kik Kow Hobble

Stops kicking, side-stepping and saves many a pail of milk. Easily and quickly attached. Clamps over tendons on cow's hind legs. Will not injure or torture the animal in any way. 35 cts.

Improved Keystone Dehorner

The Improved Keystone Dehorner is the most efficient dehorning knife on the market today. It has been improved in several important points of construction, until its strength, cutting service and durability have been greatly increased.

Complete with leader, rope, extra set of blades and screws, \$18, postpaid. Special circular sent on request.



START BEEKEEPING—IT PAYS WELL

Root Quality Bee Supplies are well known and need no introduction to beekeepers. Every article is guaranteed to give you absolute satisfaction. If you do not find what you want listed on these two pages, write for our 32-page catalogue.

Standard Hives

**Standard
Hive**
with
metal cover
KD. 10 Frames
(no comb-
foundation).
5 for \$15.70



The Standard Hive is made of the best selected pine lumber, perfectly milled and fitted together. It is the one most generally used by the largest honey-producers on account of its light weight and the ease with which it may be moved from one location to another.

It is $16\frac{1}{4} \times 20$ inches, and $9\frac{5}{16}$ inches deep, outside measurements.

Hives in the flat are furnished with nails, tin rabbets, reversible bottom-board, metal cover with inner cover, and Standard frames.

Cat. No.	DESCRIPTION	Quan.	Wt. lbs.	Price
22202	Hive complete, no foundation.....	1 KD	31	\$3 70
22203	Hive complete, no foundation.....	5 KD	149	15 70*
22205	Hive complete, full sheets foundation .1	NP	33	7 30

*Packed in four packages.

Hive-Bodies or Full-Depth Supers



**Five
Hive-Bodies**
10-Frame Size
No Frames
\$4.00

**It pays
to have extra
Hive-Bodies**

Made of the same high-quality materials as the Root Standard Hive. They may be used either as a brood-chamber, i. e., the lower story of the Hive, or as a full-depth upper story or super for extracted honey, thus forming a two-story Hive. Nails and tin rabbets included with bodies. No division-board.

Cat. No.	DESCRIPTION	Quan.	Wt. lbs.	Price
22482	Body with frames, no foundation....	1 KD	15	\$1 70
22487	Body without frames.....	1 KD	12	95
22488	Body without frames.....	5 KD	45	4 00

Shallow Extracting Supers ($5\frac{11}{16}$ inches deep)



**5 Shallow Extracting
Supers**
KD, with
frames,
no foundation
\$4.80

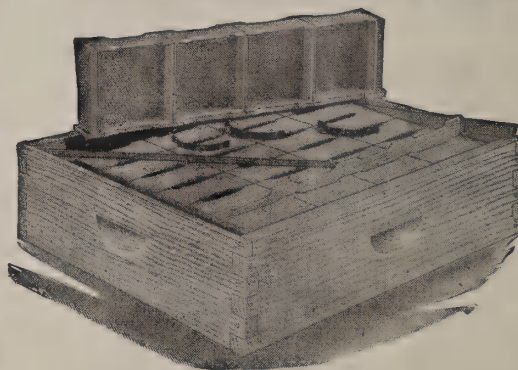
This Super is largely used in the production of chunk honey, also for producing extracted honey in shallow frames. Furnished with shallow Hoffman frames, $5\frac{3}{8}$ inches deep, without foundation. No tin rabbets or division-boards furnished.

Cat. No.	DESCRIPTION	Quan.	Wt. lbs.	Price
22522	Super with frames, no foundation...	1 KD	9	\$1 05
22523	Super with frames, no foundation...	5 KD	39	4 80
22527	Super without frames.....	1 KD	5	60
22528	Super without frames.....	5 KD	28	2 80

Beeway Section Super ($4\frac{1}{4} \times 4\frac{1}{4} \times 1\frac{7}{8}$)

This is the most commonly used Super. It is furnished with or without sections, and with or without inch foundation starters. It may be used on any hive, tiered up one or more high. Each Super holds 28 Beeway Sections.

Super complete without sections includes nails, flat tins, end-stops, Super springs, slotted section-holders, slotted separators, and follower.



$4\frac{1}{4} \times 4\frac{1}{4} \times 1\frac{7}{8}$ Beeway Section Super

Cat. No.	DESCRIPTION	Quan.	Wt. lbs.	Price
22542	Super, no sections or foundation....	1 KD	8	\$1 05
22543	Super, no sections or foundation....	5 KD	42	4 95
22545	Super, with sections, full sheets....	1 NP	11	2 90

Plain Section Super ($4 \times 5 \times 1\frac{3}{8}$)

It is a deeper Super ($5\frac{11}{16}$ inches), and is fitted with section-holders and M fences with end-stops and springs. It will admit eight section-holders and eight fences with Super springs. Holds $32 \times 4 \times 5 \times 1\frac{3}{8}$ Sections. Super complete without sections includes end-stops, section-holders, fences, Super springs, flat tins, and nails.

Cat. No.	DESCRIPTION	Quan.	Wt. lbs.	Price
22552	Super comp., no sections or foundation.1	KD	11	\$1 75
22553	Super comp., no sections or foundation.5	KD	50	7 95

Root Honey Extractors

4005	2-frame Honey Extractor.....	\$13 50
4035	3-frame Honey Extractor.....	15 00

WRITE OR ASK FOR 32-PAGE CATALOGUE OF ROOT'S QUALITY BEE SUPPLIES

BUY ROOT BEE SUPPLIES—SAVE MONEY



100 BEEWAY SECTIONS \$1.30
4 1/4 x 4 1/4 x 1 7/8

Root Quality Sections

Made of finest basswood lumber, sorted with great care, dried exactly right, planed and cut exactly, expertly polished, dove-tailed perfectly. Rounded bottom, V-grooved, so wood bends without breaking.

MILL RUN GRADE

4 1/4 x 4 1/4 x 1 7/8 Beeway Sections			4x5x1 3/8 Plain Sections		
Cat. No.	Wt. lbs.	Price	Cat. No.	Wt. lbs.	Price
2440. 100 Sections	8	\$1 30	2450. 100 Sections	6	\$1 20
2442. 500 Sections	32	6 00	2452. 500 Sections	29	5 50
2443. 1,000 Sections	62	11 95	2453. 1,000 Sections	56	10 95

Sections split three sides, \$1 per 1,000 extra

Three-Ply Airco Comb Foundation



Showing the three plies before and after milling.

This wonderful foundation for brood and extracting combs is the best because there is no sagging, no warping, one-third more worker cells, least amount of gnawing, and 7 sheets to the pound. Sheets are 8x16 3/4 inches.

Leads all others in volume of sales.

		Per pkg.
5000. 10 sheets. For Standard Frames		\$1 02
5003. 50 sheets. For Standard Frames		4 85

Single-Ply Airco Foundation

Genuine Airco Process Foundation, made into clear, tough sheets from finest quality pure beeswax.

MEDIUM BROOD FOUNDATION

For Standard Frames			For Shallow Frames		
Cat. No.	Wt. lbs.	Per pkg.	Cat. No.	Wt. lbs.	Per pkg.
5110. 10 sheets	3	\$0 85	5120. 10 sheets	2	\$0 53
5113. 50 sheets	8	4 05	5123. 50 sheets	5	2 38

THIN SUPER FOUNDATION FOR COMB HONEY

For 4 1/4 x 4 1/4 Sections			For 4x5 Sections		
Cat. No.	Wt. lbs.	Per pkg.	Cat. No.	Wt. lbs.	Per pkg.
5331. 1-lb. carton	2	\$0 80	5351. 1-lb. carton	2	\$0 80
5333. 5-lb. carton	7	3 75	5353. 5-lb. carton	7	3 75
For 4 1/4 x 4 1/4 Split Sections			For Shallow Frames		
Cat. No.	Wt. lbs.	Per pkg.	Cat. No.	Wt. lbs.	Per pkg.
5341. 1-lb. carton	2	\$0 80	5321. 1-lb. carton	2	\$0 80
5343. 5-lb. carton	7	3 75	5323. 5-lb. carton	7	3 75

Frames

Made of clear soft pine lumber, and milled on special machinery designed and built by A. I. Root Co.

Cat. No.	Wt. lbs.	per 100	10	50	100
2910. Standard Frame, 9 1/8 x 17 5/8	50	\$0 75	\$2 75	\$5 40	
2920. Shallow Extracting Frame, depth 5 3/8	26	50	1 90	3 70	
2930. Metal-spaced Frame 9 1/8 x 17 5/8	48	85	3 25	6 40	
2940. Shallow Extracting Frame, regular Hoffman top-bar	38	60	2 45	4 80	
2960. Regular Half-depth Frame, depth 4 1/2	24	50	1 90	3 70	
211. Root Frame-nailing Device. Wt. 10 lbs.					\$1.50 each.

Wire for Frames

Made especially for the purpose. A 1/2-lb. spool will wire 100 regular frames.

Cat. No.	Wt. ozs.	Price	Cat. No.	Wt. ozs.	Price
445. 1-oz. spool	2	\$0 10	447. 1/2-lb. spool	10	\$0 23
446. 1/4-lb. spool	6	15	448. 1-lb. spool	18	42

Root Smokers

Made of quality material throughout. Designed to give satisfactory service.

Cat. No.	Size of Fire Box	Wt. lbs.	Each
425. Junior (tin)	3 1/4 x 5 in.	2	\$0 80
423. Standard (tin)	3 1/4 x 7 in.	2	1 00
421. Jumbo (tin)	4 x 7 in.	3	1 20
427. Big Jumbo (tin)	4 x 10 in.	3	1 75

Bee Veils, Gloves and Hat

Cat. No.	Mailing	Wt.	Price
255. Indestructible Veil	1 lb.		\$0 75
257. Alexander Veil	1 lb.		70
259. Delphos Veil, Copper wire in front	1 lb.		1 15
253. Veil (Cotton tulle)	3 oz.		70
256. Collapsible Hat	4 oz.		1 50
Drill Bee Gloves, Small, Medium, Large	1 lb.		85

Honey Section Cartons

Cat. No.	Wt. lbs.	100	500
	Per 100		
7234. Window Cartons for 4 1/4 x 1 7/8 Sections	6	\$1 00	\$4 60
7235. Window Cartons for 4x5 Sections	6	1 00	4 60
7274. Regular Cartons for 4 1/4 x 1 7/8 Sections	6	75	3 25
7275. Regular Cartons for 4x5 Sections	6	75	3 25

Super Fixtures

Cat. No.	Wt. lbs.	10	50
	Per 100		
2540. Section Holders for 4 1/4 x 4 1/4 x 1 7/8 Sections	23	\$0 45	\$2 10
2530. Section Holders for 4 1/4 x 4 1/4 x 1 1/2 Sections	20	42	2 00
2550. Section Holders for 4x5x1 3/8 Sections	37	60	2 70
2544. Beeway Wood Separators, 1/10 in. thick	13	25	1 10
2548. Beeway Wood Separators, thin	8	18	80
2833. P Fences, used with 4 1/4 x 4 1/4 x 1 1/2 Sections	15	63	3 00
2853. M Fences, used with 4x5x1 3/8 Sections	19	68	3 20
2903. End Stops	5	15	60
4248. 10-fr. heavy metal frame supports	7	20	75
4258. 10-fr. flat tins	8	15	65
453. Super Springs	1 1/2	10	40

Miscellaneous Supplies

Cat. No.	Wt. lbs.	Price
22712. Cypress Bottom Board, 1 KD	7	\$0 70
22713. Cypress Bottom Board, 5 KD	35	3 20
22742. Hive Stand for 10-fr. Standard Hive, 1 KD	4	60
22743. Hive Stand for 10-fr. Standard Hive, 5 KD	25	2 75
22621. Metal Cover with Inner Cover, N. P.	10	1 90
22622. Metal Cover with Inner Cover, 1 KD	10	1 25
22623. Metal Cover with Inner Cover, 5 KD	46	5 75
22632. All-Wood Cover, 1 KD	8	70
22633. All-Wood Cover, 5 KD	32	3 20
22671. Inner Cover, without bee escape, nailed	3	40
22673. Inner Cover, without bee escape, 5 KD	12	1 65
411. Double Bee-Escape	1 oz.	15
4242. Queen Excluder. Standard 3-Wire and Wood	4	65
4241. Queen Excluder. Special 7-Wire and Wood	4	70
4211. Wire Queen and Drone Trap	2	45
4212. Wire Entrance Guard	1 1/2	15
415. Root Foundation Fastener, with lamp	1/2	75
416. Root Foundation Fastener, without lamp	2 ozs.	25
420. Root Wax-tube Fastener	5 ozs.	25
213. Hand Section Press	1 1/4	40
205. Inexpensive Frame-Wiring Outfit	1	50
201. Combined Frame-Wirer and Wire Imbedder. With resistance coil	10	40
401. Spur Wire Imbedder	1 1/2	20
404. Hive Tool, 8 in.	1/4	52
405. Hive Tool, 10 in.	6 ozs.	60
292. Bristle Bee Brush	3 ozs.	25
441. Plain Uncapping Knife, 8 1/2 in.	1	1 45
443. Plain Uncapping Knife, 10 in.	1	1 60
291. Boardman Feeder with cap only	3/4	20
7100. ABC and XYZ of Bee Culture. 815 pages. 732 illus. Postpaid		2 50
7105. Starting Right with Bees. 98 pages. 184 illus. Ppd.		50

WRITE FOR PRICE OF QUEENS AND BEES

Roper Rotary Shallow-Well System

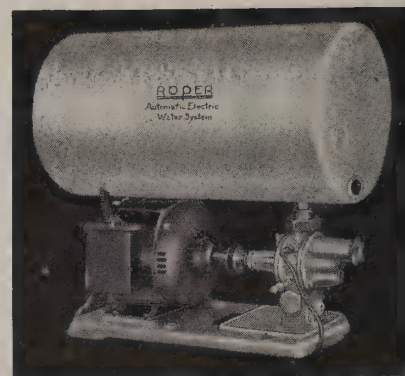
Not Recommended for Sandy Wells

For reliable pumping service from cisterns and open wells, this System can't be beat! It is a compact, efficient unit that will give you years of **Dependable** service. Completely automatic—starts and stops itself. Equipped as illustrated—ready to install. Will lift water 22 feet and force it under pressure to all outlets. Made in two sizes—250- and 500-gallon per hour capacity.

Fig. No.	Capacity Gals. Per Hour	Inlet Opening	Outlet Opening	Size Motor	Tank Size Gals.	Shpg. Wt. Lbs.	Price
880	250	3/4 in.	1/2 in.	1/4 H.P.	6	74	\$41.35
881	500	1 in.	3/4 in.	1/2 H.P.	10	115	79.20
880TA	250	3/4 in.	1/2 in.	1/4 H.P.	42	153	57.45
881TA	500	1 in.	3/4 in.	1/2 H.P.	42	173	99.00

COMPLETE CATALOGUE OF ROPER WATER SYSTEMS

Showing larger outfits, on request



Wood Pumps

Size 6 x 6 in.; 3 1/2-in. cylinder

	Unlined	Porcelain Lined		Unlined	Porcelain Lined
6-ft. . . .	\$9 25	\$11 00	8-ft. . . .	\$10 90	\$12 50
7-ft. . . .	10 00	11 75	10-ft. . . .	13 20	14 50

Tubing for above pumps, 4 x 4 in., in 8-, 10-, and 12-foot lengths, 32 cts. per ft.

Couplings for 4 x 4-in. tubing, \$.10.

In ordering give depth from top of platform to bottom of well. Prices on other sizes of Wood Pumps quoted on request.

Iron Pumps

Rex Deep-Well Lift Pump

Our new pattern anti-freezing, constant-flowing Deep-Well Pump, fitted with reversible handle and improved compound handle rest. While the Pump is designed for deep wells, yet it can be used in cisterns or wells as deep as 150 feet. Furnished with either 2 1/2- or 3 x 10-inch cylinders at the following prices:

With iron cylinder	\$11 50
With brass-lined cylinder	13 85
With brass body cylinder	15 00

If wanted complete with 1 1/4-inch galvanized pipe and 3/8-inch galvanized steel rod, add to above prices 23 cents per foot for depth of well.

New Fountain Double Acting Force and Lift Pump

The New Fountain is the simplest and most efficient deep-well pump on the market. It has a double air-chamber which enables the pump to throw an absolutely solid stream, just like a hydrant. Has smooth bore cylinder and brass valve seat; made to face the front or side by simply loosening set screw at top. It will go in hole as small as 4 3/4 inches. The upper cylinder is brass lined. Anti-freezing.

Furnished with either 2 1/2- or 3 x 12-inch cylinders at the following prices:

With brass-lined cylinder	\$20 40
With brass body cylinder	21 30

If wanted complete with 1 1/4-inch galvanized pipe and 3/8-inch galvanized steel rod, add to above prices 23 cents per foot for depth of well.

Pitcher Spout Pump

Has smooth-bore cylinder and brass valve seat, with revolving top, allowing lever to be placed at any desired position, and may be used successfully in cisterns or wells as deep as 25 feet.

PRICES

No. 2. 3-inch cylinder, polished iron, \$2.45; brass lined, \$4.35.

No. 3. 3 1/2-inch cylinder, polished iron, \$3.10; brass lined, \$4.80.

Galvanized Pipe. 1 1/4-inch, cut to length and threaded, 18 cts. per ft.

Fairbanks Portable Platform Scale

An All-metal Scale Built for Long Life

For general weighing of merchandise, these all-metal Portable Platform Scales are the most popular and adaptable of the portable platform type. The pillar, cap, and center panel of the platform are made of copper-alloy steel, pressed to shape and reinforced, making very rigid and rust-resistant units. All bearings are self-aligning. The loops, bearings, nose irons and weights are rust-resistant, assuring long life with sustained accuracy. The beam is made of non-corrosive aluminum alloy. Every farmer should have one of these scales.

No. 1128. Capacity 500 lbs.	\$22 80
No. 1124. Capacity 1000 lbs.	26 10

Shaffer "Come-Along" Hand Power Unit



An ideal all-round handy tool for the many usual pulling jobs such as moving heavy machinery, pulling stumps, straightening trees, binding load of logs, etc. Standard Model, tested to 6000 lbs, equipped with 5 ft. of 3/8-in. chain, \$9.50. Heavy Duty Model, tested to 8000 lbs. equipped with 6 ft. of 7/16-in. chain, \$12.50.

Poultry Equipment and Supplies



Hatch Chicks the Electric Way with a

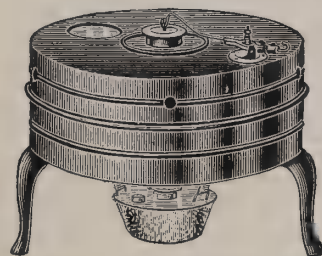
Leland Wilson Electric Incubator

A Wilson Incubator will save you more money than any measures of economy you could inaugurate on the poultry-farm. It will pay for itself in two or three hatches. Cabinet made of full thickness California redwood. It has many exclusive features: circulating air, automatic temperature control, moisture indicator and control, and Underwriters approval. The machine can be used for continuous hatching;

all or any part of the capacity can be used. The operating cost is low—about 60 KW hours of electricity will complete the hatch in the 624-egg size. Equipped for 110-volt A. C. current, but can be furnished with other motor specifications. Shipped complete ready to plug in socket.

Capacity	Price	Capacity	Price
416 eggs.....	\$54 50	1,200 eggs.....	\$122 00
624 eggs.....	74 50	2,100 eggs.....	205 00

Baby Grand Incubator



Baby Grand Oil-heated Incubator

An efficient, low-priced Incubator that provides for the small poultry raiser a machine that is dependable and economical to operate. It is made entirely of metal, has double walls, and is equipped with a moisture receptacle so artificial moisture can be applied if necessary. The temperature is controlled by a reliable wafer thermostat. Has window in the top so thermometer can be easily seen and read. The electrically heated Incubator is heated

with a 60-watt electric bulb. Capacity, 50 eggs.	Price
No. 91H. Oil-heated.....	\$6 00
No. 95E. Electrically heated.....	7 50

Oakes Electric Incubator and Brooder

Hatches Domestic or Game Bird Eggs

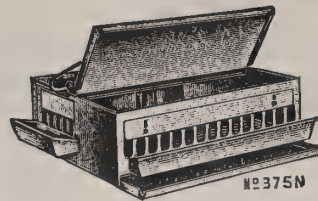
A wonderful hatcher. Case is made of metal, heavily insulated to prevent heat waste. Comes ready to plug in on any light socket. Easy to regulate to correct incubation. In room temperature of 70° F., current consumption of No. 87 is about 10 KWH; No. 88, about 13 KWH for 21-day hatch.

When hatch is completed, top may be lifted off and used as a Brooder. Legs and curtain for Brooder assembly are regular equipment. Furnished in 110-volt A. C. current. Complete with Thermometer, Candling Bulb and Tester, and Automatic Thermostat.

No. 87. 60 hen-egg size. \$15 50 | No. 88. 100 hen-egg size. \$18 00



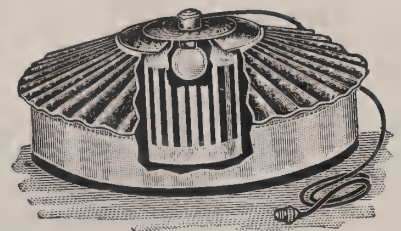
Oakes Metal Box Brooder



Made entirely of heavy galvanized steel. Sanitary and easy to keep clean. Floor is made of 1/2-inch mesh hardware cloth. Has feeder-trough across front and water-trough at side, both removable. Inside dimension, 18 x 22 x 6 inches high. Heated by electric bulb (bulb not furnished). Accommodates 50 day-old chicks. A real brood unit at a low price. No. 375N. \$2.50.

Oakes Educator Electric Hover

A low-priced, trouble-proof Electric Brooder for 50 to 60 chicks. Can be used in any heated room or basement. Uses bulb for heat (bulb not furnished). Canopy is 25 inches in diameter and made of heavy galvanized steel, with corrugations to give rigidity. Furnished with curtain to retain heat, metal stand, 8-foot drop cord, and plug-in socket.



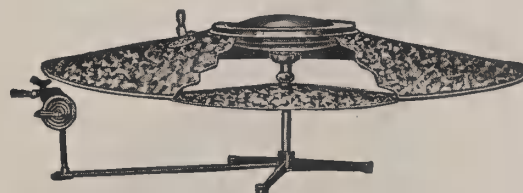
No. 25E. \$2.

E-Con-O Electric Brooder



The sensational new low-cost Brooder. The hover is 32 by 32 inches and made of stout fibre-board with insulating properties equal to cork. Has metal legs, muslin curtains, heat radiator, bulb socket, and cord. Start with 100-watt bulb and reduce wattage as needed. (Bulb not furnished.) Broods up to 150 day-old chicks. \$1.95, postpaid.

Oakes Gas-Heated Brooder



This is an ideal Brooder for use in localities where natural or artificial gas is available to the poultryman. Correct brooding temperatures are automatically maintained through positive and accurate thermostatic control. The burner is held securely in position by means of a heavy cast-iron tripod. Canopy is made of heavy galvanized steel. Heat equalizer helps to deflect the heat so that it is just as warm at the edge of the canopy as at the center.

	Capacity	Canopy	Weight	Price
No. 148.	300 chicks	48-in. diam.	34 lbs.....	\$11 25
No. 156.	600 chicks	56-in. diam.	39 lbs.....	12 30

No. 08-V. Makomb Automatic Gas Valve. Can be used on any gas-burning brooder. \$2.85.

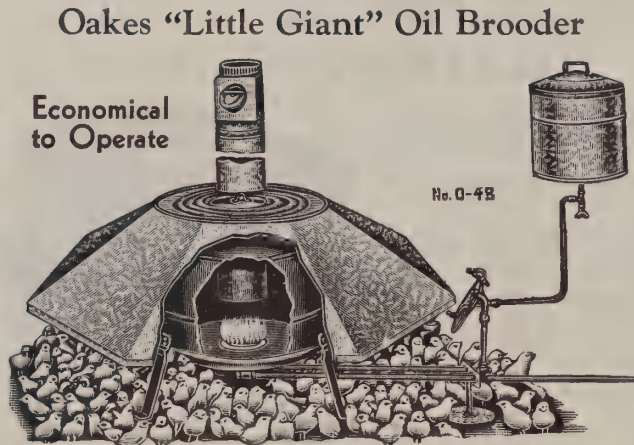
Disinfect Poultry Houses and Yards with the Aeroil Burner.
See page 78



Oakes "Tom Thumb" Oil Brooder
A Real Brooder and a Real Buy at \$9.20

Oakes "Tom Thumb" Oil Brooder Economical to operate. Low in first cost

Especially designed for use in small Brooder houses. Steel heater drum $13\frac{1}{4}$ by $13\frac{1}{4}$ inches, lock seamed top and bottom and beaded for strength. Steel legs bolted to drum—over-all height 20 inches. Cast-iron burner uses kerosene or 38/40 distillate—burns freely, evenly. Automatic control maintains even temperature. Each stove complete with necessary fuel and overflow pipes, tubing, etc. Easy to install. Where stoves of this size can be used TOM THUMB will give real service. Chimney pipe is 5 inches. Draft equalizer is included. Has 42-inch hexagonal canopy and 4-gallon fuel tank. No. 36. \$9.20.



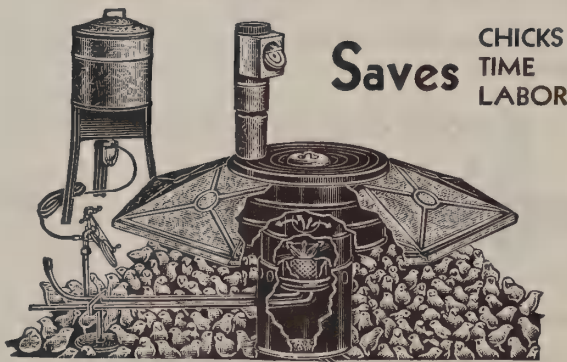
Oakes "Little Giant" Oil Brooder

Economical
to Operate

No. 0-48

A dependable, smooth-operating Brooder at a very low price. Will brood up to 350 chicks. Heater drum is of heavy-gauge blue steel, lock-seamed top and bottom, and is 16 inches in diameter by 15 inches deep. Steel legs support drum $7\frac{1}{2}$ inches from floor. Wickless type, cast-iron burner with flame spreader. Burns 38/40 distillate or kerosene. Wafer-operated heat control maintains even heat when once adjusted. Chimney pipe is 5 inches. Draft equalizer is included to prevent back drafts. Has 48-inch canopy and 7-gallon fuel tank. No. 048. \$13.60.

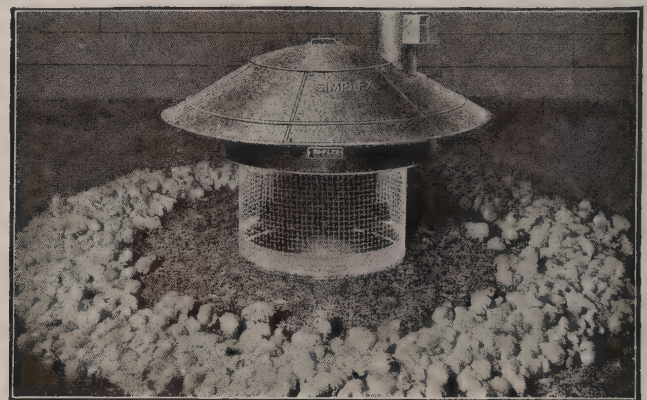
Oakes "De Luxe" Oil Brooder



Saves CHICKS
TIME
LABOR

This Brooder has many features and is designed to give ideal performance under the widest range of operating conditions. Heater drum is heavy-gauge blue steel and is easily lifted from base to clean burner. Galvanized steel deflector provides for air circulation and supports hexagonal canopy. Wafer-operated, automatic regulator maintains even heat once adjusted. Air-fed burner provides perfect combustion. Uses 38/40 distillate or kerosene. Burner is wickless type. Fuel tank capacity, 7 gallons, mounted on tripod metal stand. Draft equalizer included. Chimney pipe 5 inches.

	Capacity	Canopy	Each
No. 548S.	Up to 350 chicks	48-in. diam.....	\$17 80
No. 560S.	Up to 500 chicks	60-in. diam.....	18 90



Simplex Brooder Stove

The Simplex is constructed with heavy cast-iron base and burner, with steel legs. The body of the Stove is made of heavy black sheet steel. It has a large circulating radiator on the top, around which the heat from the burner must pass before escaping. The heat is caught by the deflector which covers the top of the radiator, and deflected to the chicks on the floor. A very worthwhile and fuel-saving feature.

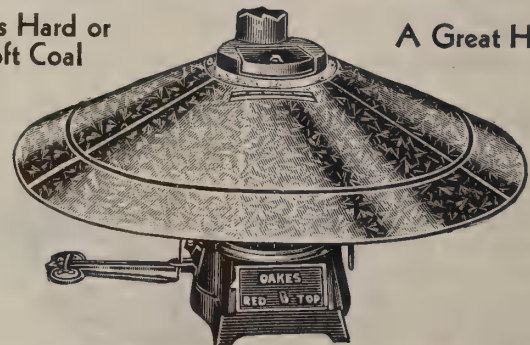
The Simplex Burner is especially designed to make "going out" impossible. It can be regulated to run as low as the ordinary house-lamp and will go as high as necessity requires, and will not go out under either regulation. Special catalogue on request.

No.	Size	Capacity	Diam. of Deflector	Diam. of Drum	Price
J41.	Junior for Oil	600 Chicks	41 in.	24½ in.	\$23 90
S41.	Senior for Oil	900 Chicks	41 in.	28½ in.	26 90
S48.	Senior for Oil	1,100 Chicks	48 in.	28½ in.	27 65
JG41.	Junior for Gas	600 Chicks	41 in.	24½ in.	21 90
SG48.	Senior for Gas	1,100 Chicks	48 in.	28½ in.	25 05

Oakes "Red Top" Coal Brooder

Burns Hard or
Soft Coal

A Great Heater



A practical, reliable, and highly efficient coal-burning Brooder. Very economical to operate. Cast-iron firepot in two sections; rocker-type grates for hard or soft coal; grate $10\frac{1}{2}$ inches in diameter. All joints cemented. Double-draft control automatically operated by two powerful thermostats; galvanized iron canopy with front section hinged. Large fuel door in top; 5-inch chimney pipe. Canopy revolves. No. RT48. 48-in. canopy, \$14.80; No. RT52. 52-in. canopy, \$17; No. RT56. 56-in. canopy, \$18.

Gro-Ezy Electric Battery Brooder

This Brooder makes possible to poultrymen the battery brooding method at a surprisingly low cost. Made entirely of metal and requires only 42 x 35 inches of floor-space. Thousands of chicks can be cared for in a small room.

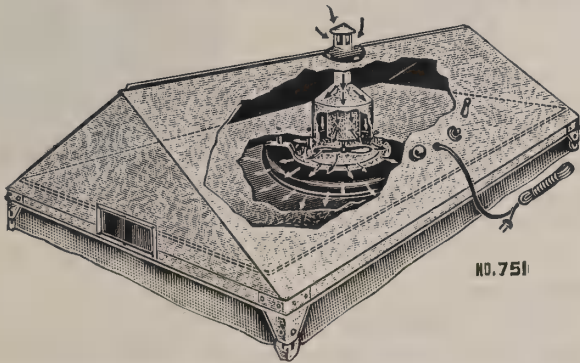
Each brood unit is equipped with patented heating element, and the heat is controlled by an automatic thermostat. It has two feed-troughs and one water-trough, both removable for cleaning. Three adjustments accommodate chicks from a day old to 10 weeks. Capacity, 100 day-old chicks. Has ½-inch mesh woven wire floor and heavy galvanized steel droppings-pan. Equipped for 110-volt A. C. Carries Underwriters' label. Single unit may be operated on shelf, box, or table. Unit sold separately, or in assemblies as priced.



No. 803. Gro-Ezy Three-Unit Brooder

	Each
No. 801. Single Brooder Unit.....	\$9 95
No. 803. 3 Units and Rack.....	39 25
No. 804. 4 Units and Rack.....	52 00
No. 805. 5 Units and Rack.....	61 95

Oakes "Fan-Type" Electric Brooder



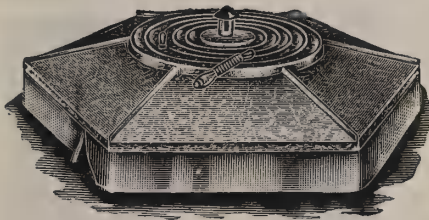
NO. 751

Oakes Electrics provide a practical and economical method of brooding chicks. Electric fan insures even heat and clean, fresh warm air for every chick. Heating element is guaranteed for 2 years but will give many years of service. Canopy is well insulated. Heater and wiring enclosed. Wafer-operated snap-switch, pilot light, ventilator in center, adjustable legs, canvas curtains. Shipped knocked down. For 110-volt A. C.

	Canopy	Capacity	
No. 750.	52 x 52 in.	Up to 385 chicks.....	\$24 50
No. 751.	48 x 72 in.	Up to 500 chicks.....	37 50
*No. 752.	52 x 52 in.	Up to 385 chicks.....	20 40

*Same Brooder as No. 750, except does not have fan.

Oakes "Advance" Electric Brooder



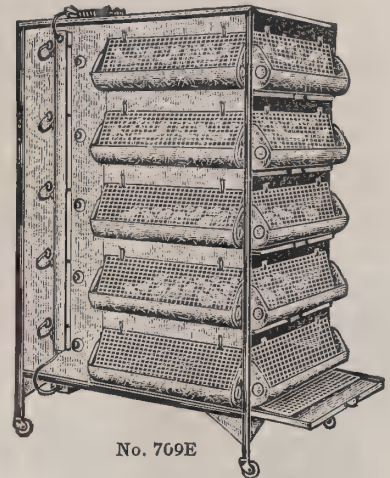
No. 522

Dependable, low-cost, electric Brooder for use in a heated room or for late spring brooding. Automatic thermostat controls heat. Center section, 28-inch diameter is heavily insulated. Enclosed heating element guaranteed for 2 years. Cloth curtain to retain heat. Complete with legs, thermometer, 8-foot drop cord, and plug. No. 520 is center section only. No. 521 and 522 have 6 canopy wings bolted to center section.

	Canopy	Capacity	Heater	Each
No. 520.	28 in.	Up to 100 chicks	250 watts.....	\$9 30
No. 521.	48 in.	Up to 150 chicks	450 watts.....	10 90
No. 522.	56 in.	Up to 350 chicks	550 watts.....	12 10

Oakes "Life Saver" Battery Brooder

A very practical and substantial unit for starting chicks and brooding first 3 to 5 weeks. By its use chick-mortality is reduced to almost zero. Metal construction throughout—strong and sturdy; portable—can be rolled any place easily. Automatic temperature control in each compartment. Droppings-pans and ½-inch mesh wire floor, removable from front and rear. Each compartment has 2 feed-troughs and 1 water-trough. Total floor-space in 5 compartments, 6,960 square inches. Capacity, 750 day-old chicks.



No. 709E

Choice of three heating methods: Electric, Gas, and Hot Water. Construction of all three models is exactly the same, except heating units.

	Each
No. 709E. Electrically heated.....	\$100 00
No. 709G. Gas-heated.....	96 00
No. 1709. Hot-water heated.....	100 00

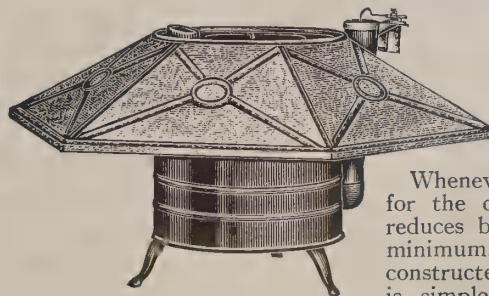
The Jamesway Universal Battery Brooder



This Brooder offers the poultryman a convenient and sanitary method of raising chicks. It consists of 10 compartments mounted on a truck and each compartment will accommodate 125 day-old chicks. The heating units are adjustable for height, are suspended from the top of each deck, and are heated by a 200-watt coiled resistance wire. Each compartment has 5½ feet of feed-trough and 3 feet of water-trough, ample to accommodate all the chicks, and easily

removed for cleaning. Made throughout of galvanized metal which assures durability and cleanliness. No. 2555. \$158.75. No. 2554. 4 deck (capacity, 1,000 day-old chicks) \$128.75. Prices are f. o. b. factory.

Oakes "Dixie" Wood Brooder Stove



Burns Dry
or
Green Wood

Whenever wood can be had for the cutting, this Stove reduces brooding costs to a minimum. The Dixie is well constructed throughout and is simple and practical in operation. Has 60-inch hexagonal galvanized steel canopy. No. 210. \$15.

FREE DELIVERY. Where the order amounts to \$2 or more (except where priced otherwise), all Poultry Equipment and Supplies are delivered prepaid at prices printed in this Catalogue. See page 143

Oakes Backwarmer Twin Electric Starting Brooder

SANITARY CONVENIENT PORTABLE

The Backwarmer Twin provides an efficient and low-cost method of starting chicks. It is substantially built, well braced and mounted on truck with swivel casters. Furnished with 4 decks and each deck divided into 2 compartments with a hover suspended in each compartment. Hovers quickly and easily adjusted by a crank in end of battery frame. They can be easily removed to convert any section into a growing battery. Each deck is 31 inches wide by 70 inches long with 10½ inches of head-room and has a capacity of 310 to 350 chicks. The head-room is ample to accommodate chicks up to 4 or 5 weeks. Water-troughs and feed-troughs are ample and are easily removed for cleaning and filling. Each deck has 16½ feet of feeding and watering space. Wire floors and droppings-pans easily cleaned. **No. 1240. \$125.**

Decks and portable truck can be purchased separately as desired and are priced as follows: **No. 1244.** Single Deck complete, no top, \$29.60. **No. 1242.** Galvanized Top only, \$1.60. **No. 1243.** Portable Truck, \$6.40.



No. 1240 Oakes Backwarmer Twin Electric Starting Brooder



Oakes Brood-N-Gro Battery

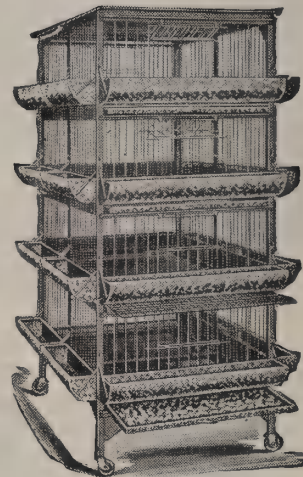
Oakes Brood-N-Gro Battery Unit

A home broiler plant. Produces 30 to 35 finished broilers in 8 to 10 weeks. Start a new bunch every 5 weeks. Top section is Gro-Ezy Starter No. 801 described on page 121; rests on top of growing unit. Bottom section is 2 deck growing unit. Each deck equipped with one feed- and one water-trough. Head-room in grower 14 inches. Floor space, 30 x 40 inches. Angle iron frame mounted on swivel casters. Height 53 inches. Complete as illustrated. **No. 310. \$27.35.**

Oakes Finishing Batteries

For finishing broilers for market or storing birds in produce house. All-metal construction with corner angles 1 x 1 x ½ inch and cross member of angle iron and heavy galvanized steel. Mounted on swivel casters. Battery divided into eight compartments, separated by wire partitions. Each compartment 24½ x 29½ inches with 14 inches of head-room. Capacity of all 8 compartments—120 broilers up to 2½ pounds or 56 to 64 hens. Total floor space inside battery, 5,777 square inches. Each deck has 2 droppings-pans, and 2 tinned wire floors of ¾-inch mesh. Floors and pans pull out from front. Troughs are heavy galvanized steel with soldered ends. Has sixteen side troughs of 6 quarts capacity each and eight end troughs of 8 quarts capacity each. **No. 324. \$54.**

OAKES JUNIOR FINISHING BATTERY. Same high-grade construction as No. 324 Battery. Has 4 compartments or decks, 805 square inches floor space each deck. Total capacity 68 broilers or 36 hens. **No. 309. \$37.**



No. 324 Oakes Finishing Battery

Oakes Laying Batteries

Users of Oakes Laying Cages report several advantages obtained from housing hens in this manner: (1) Quickly eliminate non-producers; (2) locate which hens produce largest, best eggs; (3) produce eggs which are clean—inside and out; (4) less feed consumed per hen; (5) labor cut 25 to 50 per cent; (6) feather-picking and cannibalism eliminated; (7) 75 to 100 per cent more hens can be housed in a given space than on the floor; (8) superior quality eggs commanding better prices.

They are available either in the dropping-pan type or with endless dropping belt, and in size from 12-hen capacity to 96-hen capacity. Ask for Catalogue and price-list.

Monitor Revolving-Head Ventilator

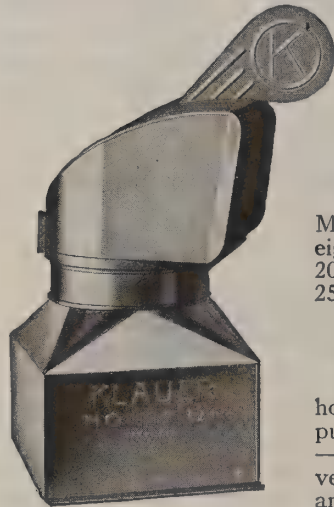
Made of the best grade of heavy galvanized steel and has full ball-bearing head. Weather-proof and freeze-proof construction. Can be fitted to any pitch of roof. Furnished in two sizes: **No. K12.** Flue 12 in., base 16 x 16 in., height 36 in., \$7.25. **No. K15.** Flue 15 in., base 19½ x 19½ in., height 44 in., \$13.25.

Klauer Ventilating Wall Window

For barns, poultry houses, hog-houses, or other building where light and ventilation are desirable. Made of 26-gauge galvanized steel. Latch lets glass be tilted to eight different positions. Window may be locked securely. Glass 20 x 28 in., building opening 20⅜ x 28⅜ in., overall size of frame 25½ x 33¼ in. **No. K2028. \$3.50 each, \$18 for 6, \$35 per doz.**

Duo-Vent Metal Window-Frame

Ideal for use on brooder-houses, barns, hog-houses, milk-houses, or any other type of frame buildings not used for residential purposes. Duo-Vent Frames are easy to set up and easy to install—simply saw a hole and nail it in. Gives any type of window ventilation—opened at top without being raised, opened at top and raised in three positions, or fully opened for direct flow of air. Uses wood sash (sash not furnished).



Monitor Ventilator



No. K6912-3W, adjusted for top and bottom circulation

	Use	Opening	Each	½ doz.	Doz.
No. K4912.	4-light 9 x 12-in. sash	22 x 29 in.	\$1 60	\$8 45	\$15 90
No. K6912-2W.	6-light (2 wide) 9 x 12-in. sash	22 x 41 in.	2 10	11 00	21 00
No. K6912-3W.	6-light (3 wide) 9 x 12-in. sash	31 x 29 in.	1 80	9 50	18 00

Jamesway

Jamesway Poultry Equipment

EQUIPMENT THAT MAKES BIG EGG-YIELDS

Jamesway Poultry Equipment is built for the discriminating buyer who buys equipment not because of the price, but because of the service it will render in increasing egg-yields, in keeping hens healthy and contented, and in making it easier to care for them.

Jamesway Poultry-Waterers

Built of heavy rust-resisting sheet steel and hot galvanized after fabrication. A copper float operates a brass valve, allowing fresh water to flow into the pan as it is used.

Easiest Waterer to disinfect, clean, and fill. Your hens require water in winter if you want winter eggs.

Made in three sizes. All sizes are exactly the same construction, except the height of the tank is more or less, depending on the size. Five-gallon size will accommodate 100 birds; 8-gallon size, 150 birds; 10-gallon size, 200 birds.

Five-gallon Size	
No. 1606. Without base.....	\$3 40
No. 1603. Unheated.....	4 00
No. 1602. Lamp-heated.....	5 25
No. 1604. Electric-bulb-heated.....	6 40
Eight-gallon Size	
No. 1616. Without base.....	\$4 35
No. 1613. Unheated.....	4 95
No. 1612. Lamp-heated.....	6 20
No. 1614. Electric-bulb-heated.....	7 35

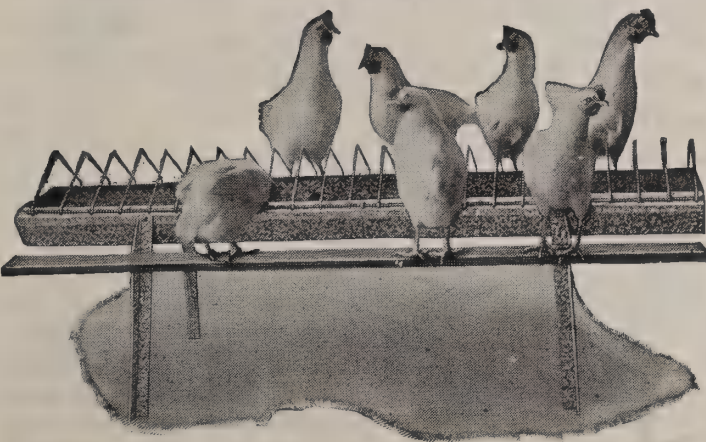
Ten-gallon size, any style, 45 cts. more than 8-gallon size

No. 585. Stand as illustrated for any size or style except Waterer without base. \$1.75.

No. 343. Stand for any size Waterer without base. For growing flocks. 50 cts.

No. 140. Kerosene Lamp. Holds 2 quarts of oil. 90 cts.

Jamesway Open-Trough Mash Feeders



Big, roomy trough for feeding dry or wet mash and green feeds. Wire guard prevents hens from getting into trough. Wide lip on trough keeps hens from pulling mash out on floor. For feed-saving, cleanliness, and real satisfaction, buy this Feeder. Trough is 10 inches wide and 5½ inches deep. Perches 20 inches from floor to prevent vent-picking by birds on floor.

No. 624. Length 4 ft. Capacity about 40 lbs. mash.....\$2 90

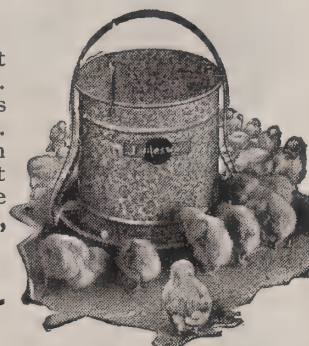
No. 525. Length 5 ft. Capacity about 50 lbs. mash.....3 45

No. 657. Length 8 ft. Capacity about 80 lbs. mash.....4 75

Baby Chicks. For many years we have made a specialty of furnishing day-old Chicks of all leading breeds. Price-list gladly sent on request.

Jamesway Chick-Waterer

Poultry experts say this is the most satisfactory Chick-Waterer ever built. Made from copper-bearing black sheets and hot galvanized after fabrication. Keeps a constant supply of clean, fresh water available for the chicks. Won't tip over. Holds 1½ gallons. Will take care of 50 to 150 chicks. No. 1407, \$1; postage 15 cts. extra.



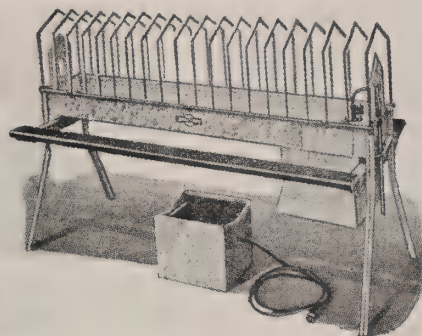
Jamesway 3-Gallon Chick-Waterer

A safe fountain for large broods of chicks. Depth of water in pan controlled by aluminum float concealed under tank. Holds 3 gallons. Will take care of 150 to 250 chicks. No. 1655, \$1.95; postage 25 cts. extra.

No. 1407 Chick-Waterer

Jamesway Pressure Trough Waterer

Poultrymen with running water will find this automatic Pressure Waterer a valuable time- and labor-saver. Water-pan 8 inches wide by 46 inches long by 5 inches deep at center. Copper float operating a brass valve maintains a constant level of fresh water. Unit sets well up off the floor on sturdy angle-iron legs, making space under Waterer available for hens.

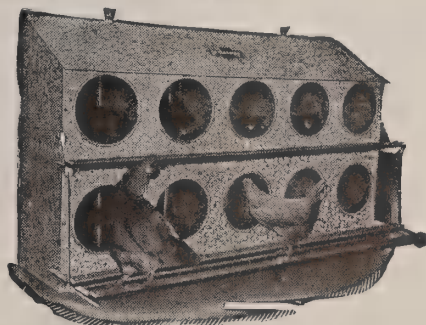


No. 986. Unheated.....	\$7 05
No. 987. Lamp-heated.....	9 25
No. 988. Electric-bulb-heated.....	9 65

Jamesway All-Metal Nests

Lice- and Mite-Proof

Put Jamesway All-Metal Nests in your poultry house and watch your hens side-step the old mite-infested wood boxes. The hard, smooth, sanitary, galvanized surface of Jamesway Metal Nests offers no place for parasites to hide and thrive. They are clean, sanitary, lice- and mite-proof, and easily cleaned. Simply swing them forward and up. Straw and shavings fall out the open back and the nest is cleaned. All Jamesway Nests are equipped with folding perches.



No. 1226. 6-Nest Unit (2 tiers, 3 ft. long).....\$6 20

No. 1230. 10-Nest Unit (2 tiers, 5 ft. long).....8 60

No. 1235. 15-Nest Unit (3 tiers, 5 ft. long).....11 60

No. 831. Trap Attachment, extra, each 35 cts., doz.....4 00

Jamesway Poultry-House Heater

A substantial, fire-safe, all-metal cabinet for use in the poultry house. Inside the cabinet may be placed any brooder (coal or oil), that will fit into it. No. 1194. Without stove. \$9.95.



No. 69G

*Has detachable clip-stand; raises pan edge 2 1/4 inches from floor.

Oakes Mason Jar Founts

A convenient, cheap, and sanitary chick waterer. Will fit pint, quart, or one-half-gallon Mason jar. Jars not furnished.

No. 69G.	Galvanized pan, Each	Doz.	
	screw-cap type....	\$0 10	\$0 90
No. 67G.	Galvanized pan, metal-clip type....	10	95
No. 17G.	Galvanized pan, wire legs, screw-cap type	12	1 20
No. 365G.	Glass pan, metal-clip type.....	12	1 20
*No. 1365G.	Glass pan, metal-clip type.....	15	1 60



No. 21

Oakes "Snap-on" Chick Waterer

Suitable for chicks or broilers. Water-can fits snugly in die-stamped drinking-pan with six drinking-spaces. Can and pan held in place by friction. Invert to fill. Cone top. Bail for carrying. Heavy galvanized steel. A good inexpensive fountain.

	Capacity	Each	Postpaid
No. 21.	1 gal.....	\$0 55	\$0 70
No. 22.	2 gal.....	80	95

Oakes "Thrifty" Fountain

A double-wall vacuum-type Fountain, no floats or spring valves, will not overflow. Inner tank soldered to pan. Non-roosting tops with handle for carrying. Made throughout of prime quality galvanized steel. Beaded for strength. Easy to keep clean. No. 503 and No. 505 can be used with heater. See page 126.

	Pan diam.	Capacity	Each
No. 501 1/2.	10 in.	1 1/2 gal.....	\$0 95
No. 503.	13 1/4 in.	3 gal.....	1 70
No. 505.	15 in.	5 gal.....	2 25

Tripod Stands. Raises fountain from floor.

No. 12 for No. 501 1/2 fountain 25 cts., No. 13 for No. 503 fountain 28 cts., No. 14 for No. 505 fountain 30 cts.



No. 505

Oakes Chick Feed Trough



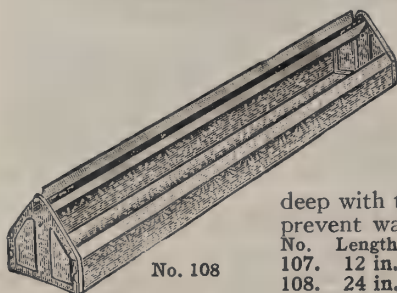
No. 72G

Gable-shaped top punched with 1-inch-wide feeding-holes—slides off to fill trough. Die-stamped bottom from heavy galvanized steel. For day-old chicks up to

3 weeks. Cover slides off easily to clean and fill.

	Length	Each	Postpaid	Doz.	Postpaid
No. 71G.	10 in.....	\$0 15	\$0 25	\$1 55	\$1 75
No. 72G.	20 in.....	25	35	2 40	2 65

Oakes "Enfold" Chick Trough

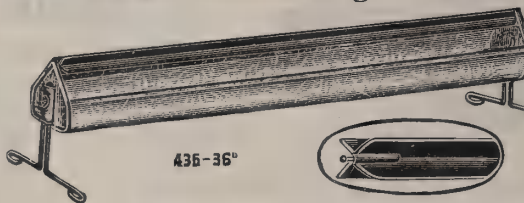


No. 108

For chicks day old to 5 weeks. Metal "Z" reel revolves to prevent roosting and is adjustable to 2 positions. Die-stamped square bottom trough of galvanized steel is 3 1/2 inches wide by 1 3/4 inches deep with turned flange along edges to prevent waste.

No.	Length	Each	Postpaid	Doz.	Postpaid
107.	12 in.	\$0 20	\$0 30	\$2 10	\$2 30
108.	24 in.	30	40	3 20	3 45
109.	36 in.	40	50	4 45	4 80

Oakes "Round Edge" Chick Trough



436-36"

Has rounded edge, no sharp corners for feed to lodge and become stale. Ideal for day-old chicks and up to 10 weeks

old. Trough is of galvanized steel, 4 in. wide by 2 in. deep. 4 blade roller bearing reel adjustable to 3 positions. Adjustable legs raise trough edge from 2 to 5 1/2 inches from floor.

	Length	Each	Postpaid
No. 424.	2 ft.....	\$0 60	\$0 75
No. 436.	3 ft.....	70	85
No. 448.	4 ft.....	85	1 00

Oakes "Wire Guard" Chick Trough

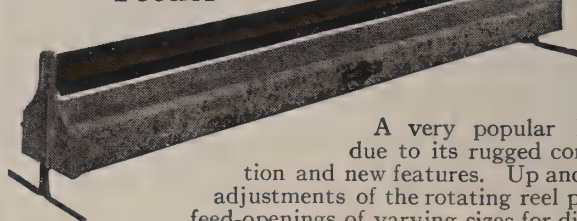


No. 212L

Has V-shaped wire grill, grill spacing 1 1/8 inches, hinged for easy filling and cleaning. Galvanized trough 4 inches wide by 2 inches deep, turned flange edge to prevent waste. Adjustable legs raise trough out of litter as chicks grow.

	Length	Each	Postpaid
No. 212L.	2 ft.....	\$0 70	\$0 82
No. 213L.	3 ft.....	90	1 05

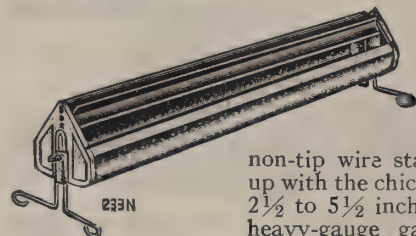
Jamesway Reel-Top Feeder



A very popular Feeder due to its rugged construction and new features. Up and down adjustments of the rotating reel provide feed-openings of varying sizes for different stages of chick-growth and prevent chicks from roosting on top of the Feeder. Adjustable wire legs permit Feeder to be raised or lowered for small chicks or growing birds.

	Each	Postpaid
No. 297. 36 in. long, 3 1/2 in. wide, 1 1/4 in. deep. Capacity, 4 qts. Has "Z" type reel. For baby chicks..	\$0 55	\$0 65
No. 292. 48 in. long, 4 in. wide, 2 in. deep. Capacity, 6 qts. 4-blade reel. For chicks and growing birds...	80	90
No. 332. 46 in. long, 5 1/2 in. wide, 3 in. deep. Capacity, 10 qts. 4-blade reel. For growing birds	1 20	1 35
No. 499. 48 in. long, 8 in. wide, 4 in. deep. Capacity, 17 qts. 4-blade reel. For growing birds.....	2 35	2 75

Oakes "Gro-Fast" All-Purpose Feeder



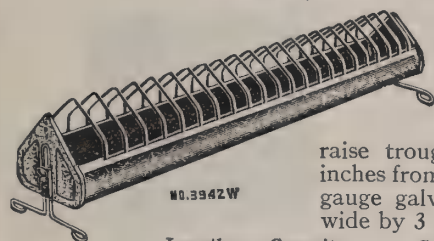
Suitable for day-old chicks to pullet size. Has adjustable 4-blade revolving reel which is adjustable to 3 positions. The non-tip wire stand is adjustable to grow up with the chicks; raises trough edge from 2 1/2 to 5 1/2 inches from floor. Trough of heavy-gauge galvanized steel, 5 inches wide by 2 1/2 inches deep. A very popular Feeder.

	Length	Capacity	Each	Postpaid
No. 233N.	36 in.	7 qts.....	\$0 90	\$1 05
No. 234N.	48 in.	9 qts.....	1 10	1 25

Thirsty Chicks Can't Eat

Rapidity of chick-growth depends on maximum intake of feed and water in minimum time. To eat dry mash chicks must have plenty of drinking space and water. In 24 hours, 300 chicks 2 weeks old will drink 8 gallons of water, if they grow as rapidly as they should. You can't skimp on feeding and watering methods and get results.

Oakes Broiler Troughs



	Length	Capacity	Style	Each	Postpaid
No. 3942W.	42 in.	15 qts.	Wire Grill	\$1 25	\$1 40
No. 3948W.	48 in.	18 qts.	Wire Grill	1 40	1 60
No. 3942R.	42 in.	15 qts.	Metal Reel	1 15	1 30
No. 3948R.	48 in.	18 qts.	Metal Reel	1 30	1 50

This feeder may be used for chicks from 3 weeks old to pullet size. Ideal for starting turkey poults. Adjustable legs raise trough edge from 3 to 5½ inches from floor. Trough is heavy-gauge galvanized steel, 6¾ inches wide by 3 inches deep.

Oakes "Giant" Flock Feeder



	Length	Capacity	Feeding Spaces	Each
No. 1160.	5 ft.	5½ pks.	42	\$4 20
No. 1196.	8 ft.	8½ pks.	64	5 85

Streamlined trough of heavy-gauge galvanized steel. Rounded edge prevents feed lodging and getting stale. Trough is 10 inches wide at top, feed-opening 9 inches, extreme width 11 inches; depth 5 inches. Wood perches are 3 inches wide and can be moved in or out for pullets or mature birds. Perch height 16 inches, prevents vent-picking by birds on floor. Hinged wire grill prevents hens from getting into trough. Built for heavy duty.

Oakes "Advance" Flock Feeders



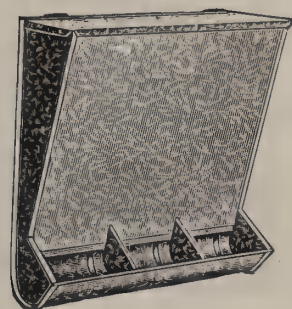
	Length	Capacity	Each
No. 860T.	5 ft.	4½ pks.	\$2 65
No. 896T.	8 ft.	7 pks.	3 75

Streamlined trough of heavy-gauge galvanized steel. Angle-steel legs, 9 inches long, bolt to side of trough, raising edge either 7½ or 9½ inches above litter. Trough is 8½ inches wide at top, feed opening 7 inches, extreme width 9¾ inches, depth 4½ inches. Hinged wire grill with 2⅞-inch spacing. Hens eat more mash from this trough—lay more eggs. Feed is seen and reached easier. Also ideal for range feeding of growing pullets, hens, or turkeys.

Oakes Wall Mash Feeder

Ideal Mash Feeder for small flocks or mating pens. Used also for grit, charcoal, or oyster shell. Heavy galvanized steel hopper; hinged wire grill, spacing 2½ inches. Hangs on wall. Back of hopper 9½ inches high; 5½ inches deep.

	Length	Capacity	Each	Postpaid
No. 27.	18 in.	5 qts.	\$1 15	\$1 30
No. 26.	30 in.	7 qts.	1 45	1 65

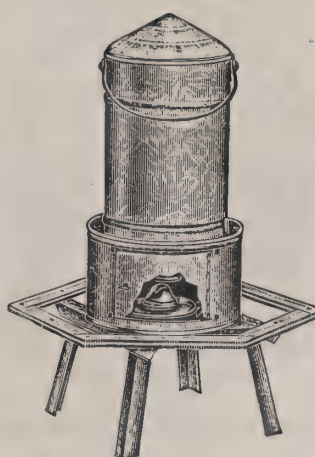


Oakes Grit and Shell Box

Provides a practical and economical method of supplying grit, oyster shell, charcoal, or minerals. Hopper hangs on wall. Made of heavy galvanized steel.

No. 46.	12 in. long.	Capacity 9 qts.
	3 compartments.	\$1.35 each, post-paid \$1.50.
No. 47.	16 in. long.	Capacity 12 qts.
	4 compartments.	\$1.50 each, post-paid \$1.70.

Oakes "Acorn" Waterer



No. 408H. Lamp-heated Fountain with No. 197S Stand.

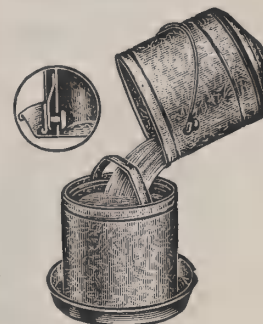
Single wall tank, detachable drinking-pan for easy cleaning. Big, powerful brass float maintains even water-level in drinking-pan. Float locks when tank is removed for cleaning tank or pan. Pan 15 inches in diameter. Tank 12 inches in diameter. Has convenient bail for carrying. Heavy gauge galvanized throughout.

If water is right temperature, 100 hens drink 6 to 8 gallons of water daily. A heated fountain pays for itself in extra egg production.

No.	Size	Each
405.	5-gal. Fountain only	\$3 25
405H.	5-gal. Lamp-heated	5 50
408.	8-gal. Fountain only	3 50
408H.	8-gal. Lamp-heated	5 75
No. 197S.	Stand as illustrated for either size except for fountain only,	\$1.75.

Oakes "E-Z Fill" Fountain

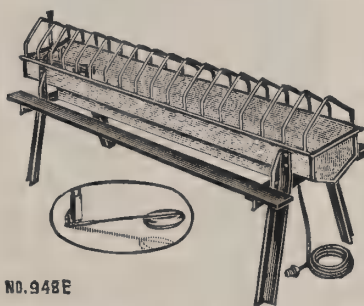
An all-purpose Fountain for chicks, broilers, and hens. Double wall, vacuum type, roost-proof cone top. Cross handle in inner tank; bail on outer can for carrying and filling. Made throughout of extra-heavy gauge galvanized steel. Easy to keep pan and tanks clean and sanitary. No. 235 has extra-wide clearance between can and pan edge for hens. Can be equipped with heater for winter use. See page 126.



	Capacity	Pan Diam.	Each
No. 31.	3 gals.	13¼ in.	\$2 00
No. 235.	5 gals.	16½ in.	2 80

Tripod Stands. Raises fountain from floor. No. 13 for No. 31 Fountain, 28 cts. each; No. 18 for No. 235 Fountain, 32 cts. each.

Oakes "Never-Dry" Water Trough



No. 948E

This type of fountain provides drinking-space for 100 to 150 hens at the lowest possible cost. Trough is made of heavy galvanized steel, with V-shaped bottom, 5½ inches deep with 3½ inches side wall; 8 inches wide, 48 inches long. Capacity 8 gallons of water. Drain-plug in one end. Hinged wire grill, spacing 2⅞ inches. From 16 to 20

hens can drink at one time. Heater assembly under trough. Kerosene lamp fully enclosed, uses No. 2 Zenith burner. Burns 30 hours with one filling. Can also be furnished with electric heating element—not automatic. Big brass float maintains even water-level and permits operation on gravity or pressure water line. No. 948. Without heater \$4.75. No. 9480. Lamp heated \$6.80. No. 948E. Electric heated \$6.80.

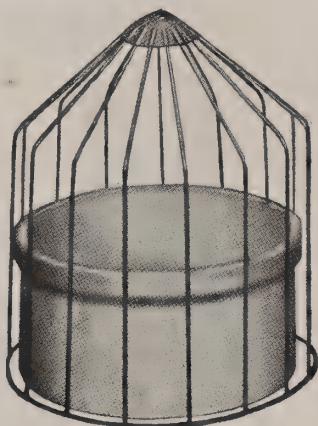
It Takes Water to Make Eggs

In 24 hours 100 Laying Hens will drink 6 to 8 gallons of water IF THEY CAN GET IT. They can't lay eggs without water—an egg is two-thirds water. Provide warm water in winter. Just 1 extra egg per hen per month during 4 winter months pays for an 8-gallon heated waterer.

Nu-Way Feeder and Fountain

A very satisfactory way of supplying grown fowls, turkeys, and pigeons with water, buttermilk, wet mash, and feeds of every kind without waste. The pan is made of stoneware and the canopy of heavy galvanized iron. Capacity, 2 gals.

No. 10. \$1.25.

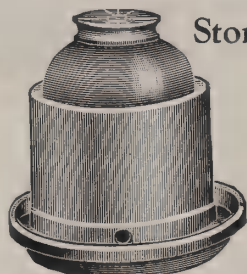


Moe's Automatic Fountain

A perfect automatic valve and float, to regulate the flow of water to a drink-dish.

The valve is threaded for 1/4-inch iron pipe and can be attached to any pressure system, or to a barrel or tank, and insures a continuous, automatic supply of water, without waste.

No. 30. Automatic Valve and Float only. 90 cts., postpaid \$1.00; 6 for \$5.25.

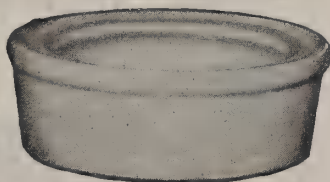


Stoneware Fountain

Be sure to specify which is wanted, Fountains or Feeders.

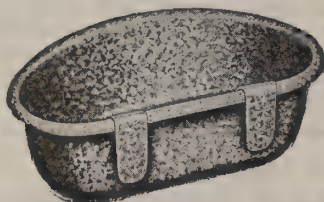
Stoneware Rabbit Feeder and Waterer

Made of high-grade stoneware. White glazed. Suitable for dogs or rabbits.



	Diameter	Depth		Each	Doz.
No. 1. Feeder.	5 1/2-in.	2 1/2 in.	Rolled edge.....	\$0 15	\$1 65
No. 2. Feeder.	7 1/4-in.	2 1/2 in.	Rolled edge.....	20	2 00
No. 3. Waterer.	7 1/2-in.	3 in.	Straight side....	25	2 65
No. 4. Waterer.	6 1/2-in.	3 in.	Flared side.....	20	2 00
No. 5. Waterer.	7 1/4-in.	4 in.	Bottom rounded		
inside. Will not break by freezing.....				30	3 25

Oakes Feed and Water Cups



Seamless, die-drawn cups with lugs for attaching to fence or coop. No. 1P used for poultry coops; larger sizes in fox and dog kennels. No. 1P. 1/2-pt. capacity, 20 cts. each, \$2 per doz. No. 1. 1-qt. capacity, 45 cts. each, \$4.20 per doz. No. 2. 2-qt. capacity, 65 cts. each, \$6.90 per doz.

Clay Pigeon Nest

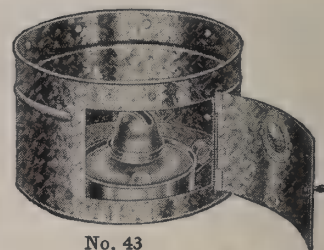
Un glazed. Heavy Bottom.

9-in. diameter, 20 cts. each, doz. \$2.



Oakes Fountain Heaters

Can be used with almost any type of fountain and effectively prevents water from freezing. Made of galvanized steel, with a hinged door and secure fastener. Heavy terne plate bowl, and Zenith no-chimney burner. The lamp bowl holds sufficient kerosene to burn 30 hours. Simple and safe.



No. 43

- No. 42. Inside diam. 12 1/2 in., height 8 1/2 in. Fits No. 31 and No. 503 fountains. \$1 85
 No. 43. Inside diam. 14 3/8 in., height 8 3/4 in. Fits No. 505 fountain. 2 25
 No. 236. Inside Diam. 16 1/4 in., height 8 1/4 in. Fits No. 235 fountain. 2 25
 No. 44. Can be used with any flat-bottom fountain. Also makes an ideal heating unit for brooding chicks in a small box. Diam. 10 in., height 7 in. Has closed top. 1 85

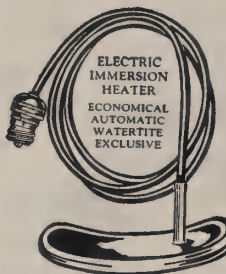
Oakes Electric Fountain Heater

Automatic heat control adjusted to turn on at 55° and shut off at 65° F. Made of galvanized steel, diam. 15 in.; height 6 in. Heating element is 100 watts. For 110-volt A.C.

No. 24. \$3.90.



No. 24

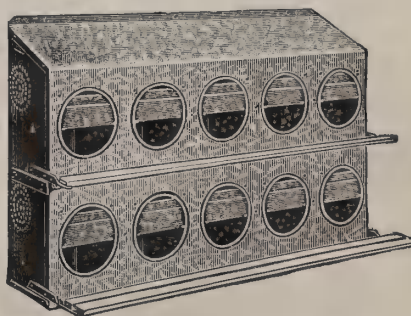


MaKomb Electric Immersion Heater

Can be used in any fountain, pail, or trough. Will hold water at 50° to 55° automatically. Uses about 1/2 K.W. hour in 24 hours. Case of heavy tinned copper, housing best element in porcelain cover.

No. M8-22. \$3.

Oakes All-Metal Lice-Proof Nests



Made of heavy-gauge galvanized steel. All partitions perforated like end section, plenty of ventilation. Each nest 11 1/2 inches wide by 13 inches deep. Round entrance hole 9 inches diameter with smooth rolled edge. Steep sloping roof prevents roosting. All nests punched so that traps may be added at any time. Trap-

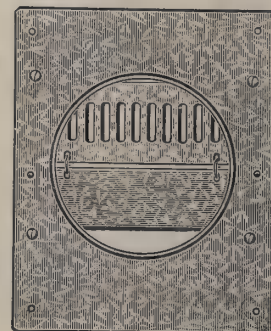
doors are optional and priced extra.

	Each
No. 576. 6-Nest Unit, 34 1/4 in. long.....	\$5 60
No. 580. 10-Nest Unit, 57 1/4 in. long.....	7 80
No. 585. 15-Nest Unit, 57 1/4 in. long.....	11 00
No. 590. Set of 5 traps for above.....	1 40

Oakes Trap Nest Fronts

Made of heavy galvanized steel. Assembly 12 1/4 x 15 inches ready to attach to any wood nest. Entrance hole 9 inches in diameter. Trap-door folds in middle and lifts upward to set off-center. Hen trips the trap when she enters. Simple and positive in action. When not in use for trapping the trap-door may be locked in open position.

No. 59R. 50 cts. each, postage 10 cts. extra; \$5.60 per doz.



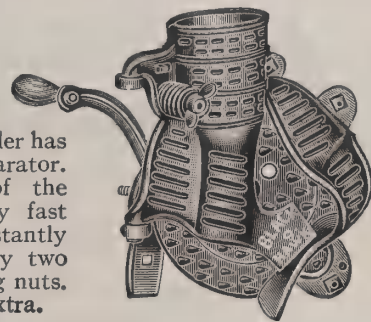
Black Hawk**Grist Mill**

With a Black Hawk Mill you can crack corn or grind any kind of grain to whatever degree of fineness will best suit the age or condition of your fowls.

Grinds corn into meal, wheat into graham flour, rice or buckwheat into flour; in fact, an all-round household Mill that will grind fine or coarse. Price \$3.50.

**Black Hawk Corn Sheller**

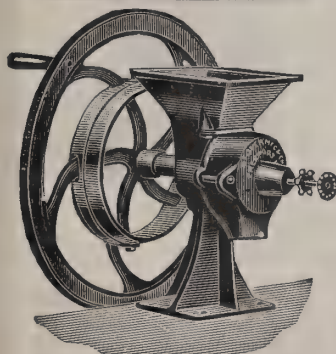
The Black Hawk Corn Sheller has enclosed hopper and separator. This prevents scattering of the shelled corn. A wonderfully fast and easy-running Sheller. Instantly fastened to barrel or box by two large strong clamps with wing nuts. Price \$3.25, postage 30 cts. extra.

**Stover Grinding Mill**

In this Mill are embodied all the good features of other hand grinding Mills to which have been added universal burrs or grinding plates that are adjustable for grinding coarse or fine. This machine grinds oats, barley, rye, corn, peas, etc., for feeding to poultry. It is a well-designed machine, is strong and well made throughout and of excellent finish, has a 16-inch fly-wheel and is light running.

No. 32. Hand Power, capacity 1 to 2 bushels per hour. Price \$5.35.

No. 35-B. Hand and Power, capacity 2 to 4 bushels per hour. Price \$9.95.

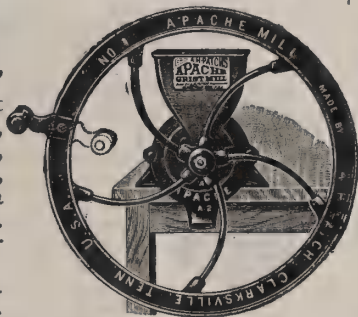


No. 35-B. Stover Hand and Power Mill

Apache Grist Mill

The Apache is an "all-round" Mill of large capacity, suitable not only for grinding chicken-feed, but ideal for making cornmeal, graham flour, rye flour, hominy, etc., for table use. It will grind a quart of meal in three minutes. Has perfect adjustment for fine or coarse work.

The large fly-wheel, large hopper, ball-bearings, and adjustable regulator, make the Apache the lightest running, fastest grinding, and most easily operated Mill on the market. Well built and will last a lifetime. Price \$7.50.

**Oakes Adjustable Roof Saddle**

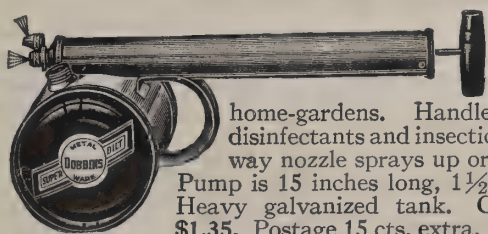
For brooder-houses. Fits any shed-type roof up to 30° pitch. Adjustable base with wide flashing—water tight. Made of galvanized steel. Complete with cap. Each Postpaid

No. 142. For 4-in. pipe.....	\$1 35	\$1 50
No. 143. For 5-in. pipe.....	1 50	1 65
No. 1436. For 6-in. pipe.....	2 10	2 30

Smoke-Pipe for Brooder Stoves. Blue steel in 2-ft. lengths, 4-in. diam., 17c. per length; 5-in. diam., 20c. per length.

Cast-Iron Dampers. For 4-in. pipe, 13c. ea.; for 5-in. pipe, 15c. ea.

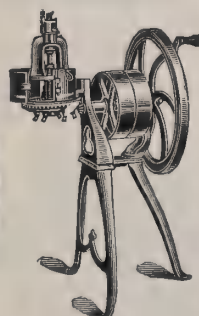
Elbows, Crimped. 4-in. diam., 15c. each; 5-in. diam., 17c. each.

Dobbins Continuous Sprayer

A rugged and practical Sprayer for poultry and dairy buildings and home-gardens. Handles all water-soluble disinfectants and insecticides. Patented two-way nozzle sprays up or straight ahead. Pump is 15 inches long, 1½ inches in diameter. Heavy galvanized tank. Capacity, 3 quarts. \$1.35. Postage 15 cts. extra.

**Banner Root-Cutter**

Vegetables, such as cabbage, carrots, turnips, mangels, beets, and potatoes furnish the essential green-food vitamins during the winter months. With a Banner Cutter to quickly and easily cut and shred vegetables, the poultry-raiser is fully equipped to keep up his green-feed rations during the winter months. Enough feed for a large flock of birds can be cut in two to five minutes. No. 7. \$7.85.

Mann's Green Bone-Cutters

The poultry-raiser wants eggs, and wants them when eggs are worth the most. Green bone and raw meat produce them. There is no doubt about that. Experience proves it; science shows why. Mann's Green Bone-Cutters have been sold for many years, and they are by far the best Bone-Cutters on the market today. Every machine is guaranteed, and must do the work. Send for complete Catalogue if you wish to know more about them.

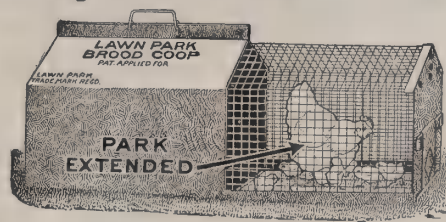
No. 5-B. Hand Bone-Cutter designed for small flocks. Weight 60 lbs. Price \$15.

No. 7½. Combination Hand and Power. Can be run either way without change of parts. Weight 130 lbs. Price \$28.

No. 7. Hand Bone-Cutter designed for flocks of 25 to 100. Weight 107 lbs. Price \$19.75.

No. 11. Combination Hand and Power. Intended for large flocks when the machine must be run by hand a portion of the time. Price \$45.

No. 12. An all-power Bone-Cutter where large quantities of bone are to be cut. Capacity from 120 to 150 pounds per hour. Weight 261 lbs. Price \$65.

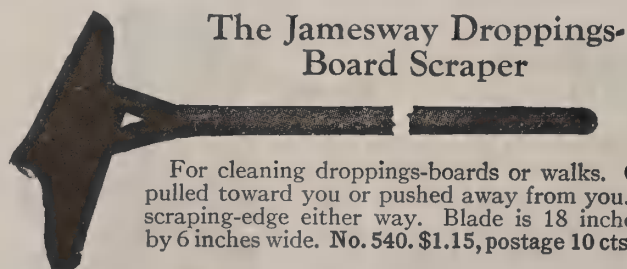
**Lawn Park Brood Coop**

Saves the Chicks

Made entirely of galvanized materials. Absolutely protects chicks against rats, cats, dogs, hawks, vermin, cold, storms, and all other chick enemies. Front has two hinged doors and damper ventilator and pushes in and out like a drawer. It is large and roomy, being 18 inches wide, 19½ inches high, and 48 inches long, with park extended. Has removable bottom for cleaning. No. 50. \$3.75 each.

Baby Chicks

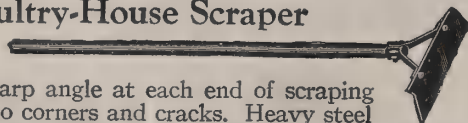
We exercise extreme care in the selection of our Baby Chicks and supply only Chicks from selected matings and blood-tested flocks. We can supply all popular breeds, also Baby Ducklings and Turkey Poults. Prices on request.



The Jamesway Droppings-Board Scraper

For cleaning droppings-boards or walks. Can be pulled toward you or pushed away from you. Keen scraping-edge either way. Blade is 18 inches long by 6 inches wide. No. 540. \$1.15, postage 10 cts. extra.

Oakes Poultry-House Scraper

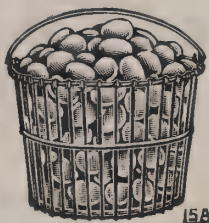


Shaped with a sharp angle at each end of scraping edge so as to get into corners and cracks. Heavy steel blade, 3½ inches wide, held rigid to handle by heavy, malleable braces. No. 995. 13 in. long, 3½ in. wide, \$1.35. No. 1024. 18 in. long, 5 in. wide, \$1.65, postage 20 cts. extra.

Oakes Egg-Cooling Basket

For gathering and quick cooling of eggs. The quicker the eggs can be cooled, the better they will be. Clean, fresh-flavored eggs always bring premium prices. Store eggs in wire Cooling Baskets in a room temperature of 60 degrees for best results.

Made of galvanized wire with perforated metal bottom. Capacity 12 dozen 26-ounce eggs. No. 15. 95 cts. each, postage 10 cts. extra; 6 for \$5.25.



Hoelt's Egg-Tester

Used with an ordinary lamp (No. 2 burner) in a dark room. It will illuminate the interior of the egg, and show if the chick is alive, and also show the size of air-cell in the egg. No. 48. 25 cts. each, postage 10 cts. extra.

Nest-Eggs

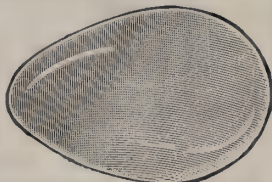
They induce the hen to lay where she should—in the nests provided for her.

Glass Nest Egg. Hen size, 4 for 10 cts.; 20 cts. per doz.; postpaid, 30 cts. per doz.

Pigeon size, 5 cts. each; 40 cts. per doz.; postpaid, 50 cts. per doz.

Lime Nest Egg. Made from pure sterilized sulphate of lime. Keeps nests in a clean, healthful condition.

Price, 3 for 10 cts.; 30 cts. per doz.; postpaid, 40 cts. per doz.



Layton Pikgards

Controls cannibalism, vent-picking, fighting and domineering, etc. Made of rustproof metal, of extreme lightness and durability. They are easily and quickly attached to the beaks of fowls. Use on birds 4 and 5 months old and older. \$3 per 100; \$14.50 per 500; \$28 per 1,000.



Incubator and Brooder Extras

	Each	Postpaid
No. 100 Lamp Bowl, capacity 1 pt.....	\$0 50	\$0 60
No. 101 Lamp Bowl, capacity 1 qt.....	60	70
No. 102 Lamp Bowl, capacity 2 qts.....	75	85
No. 200 Zenith Burner. Uses 5/8-inch wick.....	60	65
No. 201 Zenith Burner. Uses 7/8-inch wick.....	75	80
No. 211 Zenith Burner. Uses 1 1/2-inch wick.....	1 00	1 05
No. 202. Sun Hinge Burner. Uses 7/8-inch wick..	40	45
No. 212. Sun Hinge Burner. Uses 7/8-inch wick..	60	65
No. 203. Sun Hinge Burner. Uses 1 1/2-inch wick.	60	65
Metal Chimney.....	20	25
No. 208 Red Felt Wicks. 5/8-in. width. Dozen...	25	25
No. 209 Red Felt Wicks. 7/8-in. width. Dozen...	45	45
No. 210 Red Felt Wicks. 1 1/2-in. width. Dozen..	55	55
Wafers for Wafer Regulator, 3-in.....	30	35
Wafers for Wafer Regulator, 4-in.....	40	45
Wafers for Wafer Regulator, 5-in.....	50	55

Moe's Aluminum Leg-Bands



Made of sheet aluminum, with large raised numbers, easy to read from a distance. Adjust-

able for any size fowl. Accurately made and quickly applied. Packed in paper cartons of 12, 25, 50 and 100 Bands each. Numbered from 1 to 9,999. Prices postpaid.

12 Bands.....	\$0 15	100 Bands.....	\$0 65
25 Bands.....	25	500 Bands.....	3 00
50 Bands.....	40	1,000 Bands.....	5 50

Bandettes (Colored Celluloid Leg-Bands)

Bandettes are easily and quickly applied. Made of special spring celluloid.

Furnished in six colors—Blue, Red, Yellow, Green, Cerise (Pink), and White. Colors are fast and will not fade.

Sold only in unbroken sets of 25 of one color.

No. 4. For Baby Chicks. Numbered 1 to 500.

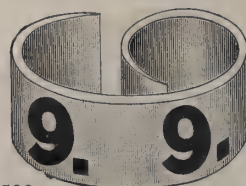
No. 6. For Pigeons. Numbered 1 to 500.

No. 9. For Leghorns. Numbered 1 to 3,000.

No. 11. For American Breeds. Numbered 1 to 2,000.

No. 12. For Asiatics. Numbered 1 to 500.

Nos. 4 and 6	Postpaid	Nos. 9, 11, and 12	Postpaid
25 Bands.....	\$0 50	25 Bands.....	\$0 65
50 Bands.....	90	50 Bands.....	1 15
100 Bands.....	1 60	100 Bands.....	2 10
250 Bands.....	3 75	250 Bands.....	4 75
500 Bands.....	7 00	500 Bands.....	9 00



Perfecto Spiral Leg-Bands

KNOW YOUR HENS ON SIGHT

In ten colors—Red, Green, Purple, Black, White, Pink, Yellow, Ruby, Light Blue, and Dark Blue.



Mark each bird for its pen. Give each pen a different color. Mark old birds and pullets differently and know what you are doing.

No. 0. 7/8-in. diam. for Turkeys.

No. 1. 3/4-in. diam. for Asiatic Breeds.

No. 2. 11/16-in. diam. for American Breeds.

No. 3. 5/8-in. diam. for Leghorns.

No. 4. 11/16-in. diam. for Bantams.

No. 5. 5/8-in. diam. for Pigeons.

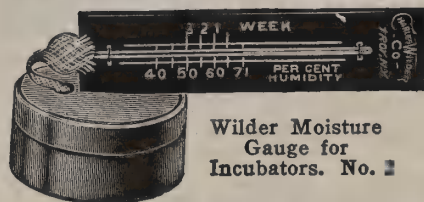
No. 6. 3/4-in. diam. for Baby Chicks.

Spiral Leg-Band

Prices, postpaid	No. 0	No. 1	No. 2	No. 3	No. 4	No. 5	No. 6
25 Bands \$0 30	\$0 25	\$0 25	\$0 20	\$0 15	\$0 15	\$0 15	\$0 15
50 Bands 45	40	35	35	25	20	20	20
100 Bands 80	70	60	55	45	35	35	35
500 Bands 3 50	3 00	2 50	2 25	1 65	1 40	1 25	1 25
1,000 Bands 6 50	5 50	4 50	4 00	2 75	2 25	2 00	2 00

Thermometers and Hygrometers

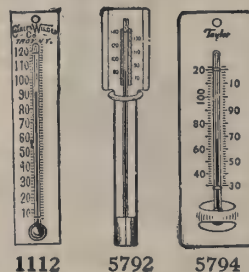
FOR INCUBATORS AND BROODERS. ACCURATE AND DEPENDABLE



Wildner Moisture Gauge for Incubators. No. 2

136

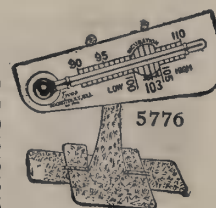
No.	Postpaid
5776. Taylor Incubator Thermometer, with stand.....	\$0 90
5794. Brooder Thermometer.....	60
5792. Brooder Thermometer.....	90
1112. Brooder Thermometer.....	55
136. Brooder Thermometer.....	55
2. Wildner Moisture Gauge.....	1 35
5796. Incubator Hygrometer.....	1 75



1112

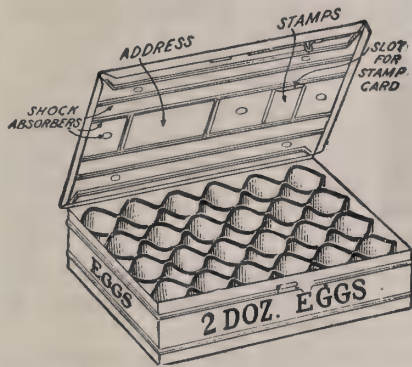
5792

5794



5776

Aluminized Metal Egg-Crate



Solves every problem of shipping eggs and butter and other soft products by mail. Built for continued use; practically indestructible; lasts for years. No wrapping is required. A permanent lock pin attached to the crate holds the lid rigidly closed. Fillers have metal edge. Reversible address cards visible through opening in lid. Names of shipper and receiver are placed on each side of this card.

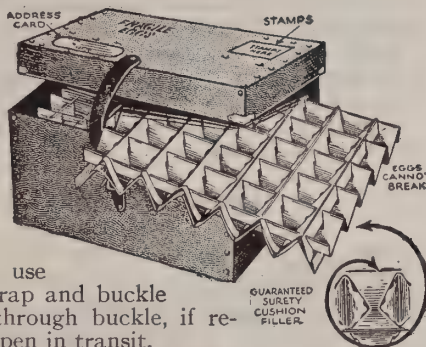
Weight without eggs	Each	Postpaid	Weight without eggs	Each	Postpaid
1-doz. size. 2 lbs.	\$1 00	\$1 10	4-doz. size. 5 lbs.	\$2 00	\$2 13
2-doz. size. 3 lbs.	1 50	1 61	6-doz. size. 6 lbs.	2 50	2 64
3-doz. size. 4 lbs.	1 75	1 87	12-doz. size. 11 lbs.	4 00	4 19

"Egg-Pak" Fibre Egg-Case

ELIMINATES ALL EGG-BREAKAGE

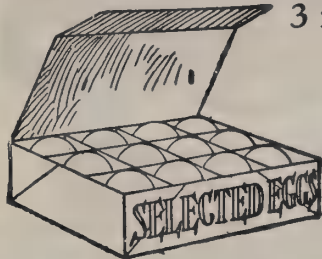
Made of indestructible fibre, riveted together like steel girders. Eggs shipped in "Egg-Pak" will always arrive in the same condition in which they left. Has reversible address card holder and stamp space and patented "Surety Cushion" fillers.

Easily closed by the use of a genuine cowhide strap and buckle piece. May be sealed through buckle, if required. Buckle cannot open in transit.



Weight without eggs	Each	Postpaid	Weight without eggs	Each	Postpaid
2-doz. size. 2½ lbs.	\$2 20	\$2 31	8-doz. size. 5 lbs.	\$3 25	\$3 38
4-doz. size. 3½ lbs.	2 80	2 92	12-doz. size. 6½ lbs.	4 00	4 15
6-doz. size. 4 lbs.	3 15	3 27			

Extra trays, 24-25-egg size, 25 cts. per tray



3 x 4 Folding Egg Carton

One-dozen size. No printing

This is the regulation Folding Egg Carton, used where eggs are delivered direct to customers. It is not a parcel-post box.

	Postpaid	Postpaid
12 Boxes.....	\$0 15	\$0 25
50 Boxes.....	55	75
125 Boxes.....	1 00	1 25
250 Boxes.....	1 75	2 20
500 Boxes.....	3 25	4 10
1,000 Boxes.....	6 00	Not ppd.

2 x 6 Folding Egg Carton

Holds one dozen eggs and made with full-cushion filler, giving full protection to the eggs, and long front flap, which gives a rigid top to the box. Not suitable for parcel-post use.

	Postpaid	Postpaid
12 Cartons.....	\$0 25	\$0 35
50 Cartons.....	75	95
100 Cartons.....	1 45	1 75
250 Cartons.....	2 90	3 50
500 Cartons.....	5 50	6 60
1,000 Cartons.....	10 50	Not ppd.

Humpty Dumpty Egg-Carrier

Constructed to withstand hard knocks; easy to pack and unpack, easy to carry. Can be used over and over again. Furnished complete with fillers.

	Each	Postpaid		Each	Postpaid
3-doz. size.....	\$0 45	\$0 55	15-doz. size.....	\$0 65	\$0 85
6-doz. size.....	55	65	30-doz. size.....	1 00	1 25
12-doz. size.....	60	75			

Egg-Case Fillers, 20 cts. per doz., postpaid 30 cts. Case of 125 three-dozen size fillers, \$1.25.

Cushion Flats, 20 cts. per doz.; \$1.25 per 100, postpaid \$1.50. These can also be used in the regulation Egg-Cases.

Cel-O-Glass

Cel-O-Glass brings the all-important ultra-violet rays indoors; keeps houses warmer, prevents rickets, reduces chick losses.

This time-tested profit-maker for poultry raisers and farmers is now guaranteed to give 5 years' service when correctly installed.

	36-in. width	28-in. width		36-in. width	28-in. width
100 lineal feet.	\$40 50	\$31 50	10 lineal feet.	\$4 50	\$3 50
50 lineal feet.	20 75	16 25	5 lineal feet.	2 50	1 90
25 lineal feet.	10 75	8 40			

Cel-O-Glass Refix. For repairing punctures in Cel-O-Glass. ½ pt. 40 cts.; pt. 65 cts.



Genuine Glass Cloth

A strong fabric treated by a patented process to make it translucent, weather-proof, and water-proof. It readily transmits the life-giving, vitalizing ultra-violet rays of the sun. These are the health rays of sunlight and are absolutely needed by poultry in winter months. Easily put up. In rolls 36 inches wide.

100-yd. roll, 900 sq. ft.	\$25 00	15-yd. roll, 135 sq. ft.	\$3 75
50-yd. roll, 450 sq. ft.	12 50	10-yd. roll, 90 sq. ft.	2 50
Less than 10 yds., per yd.			30

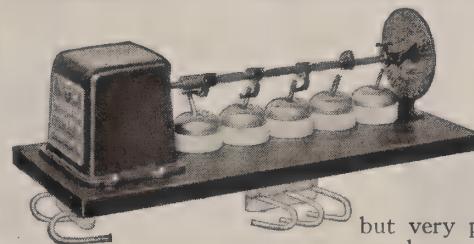


R-V-Lite Vitapane

The new transparent glass substitute for installation in poultry and brooder-house windows, cold and hotbed frames, storm-doors, sun-porches, etc. It is made from transparent cellulose acetate, reinforced with a tough netting fabric. High

transmission of ultra-violet rays, durable, lightweight, waterproof, easy to install. 36 in. wide. 50-ft. roll, \$9.25; cut lengths, 22 cts. per lineal ft.

The Never-Fail Electric Time Switch



This simple but remarkable device automatically turns electric lights on or off at the exact time you wish it done. Cams on a cam-shaft connected to a small

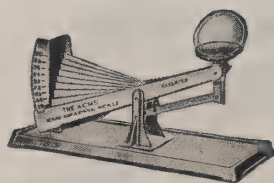
but very powerful and durable synchronous motor operate the switches. Can be located in the home or any other building. For use with alternating current, 120 volts. Complete instructions are sent with each machine.

No. 22. Turns bright lights on and off. Two operations.....	\$13 50
No. 33. Turns bright and dim lights on and off. Four operations.....	15 00
No. 55. Controls bright and dim lights mornings and evenings.	16 50

Blue Ribbon Chick Box

A safe and convenient carrier for shipping baby chicks either by express or parcel post. Prices include staples, ready for assembling.

25-Chick size. 11 x 9 x 5½ in. 18 cts. each, postpaid 28 cts.; doz. \$1.65, postpaid \$1.90.	
50-Chick size. 18 x 11 x 5½ in. 22 cts. each, postpaid 32 cts.; doz. \$2.25, postpaid \$2.55.	
100-Chick size. 22 x 18 x 5½ in. 30 cts. each, postpaid 40 cts.; doz. \$3.25, postpaid \$3.65.	



Acme Egg-Grading Scale

It is made entirely of aluminum, which makes it rustproof and practically indestructible. No springs or weights used in its construction. By placing an egg in the cup, the beam will automatically adjust itself. The lowest visible number on the blades will indicate the weight in

ounces of one dozen like eggs.

Accurately grades all eggs ranging from 19 ounces to 30 ounces per doz. \$2.50, postpaid.

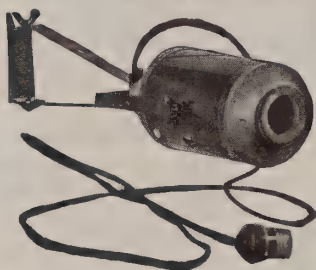
Oakes Egg-Scale

A real Egg-Scale—accurate, dependable, and fast. Angle dial is easy to read. Individual egg-weight and weight per dozen are indicated on the double dial. Dial is black with figures in white.

Egg-cup, lever parts, and counterweight are chromium plated. Bearing-pins are brass. No. 20S. \$1.45, postpaid.



Reliable Standard Egg Candler



Especially adapted for produce houses where a stationary Candler is most desirable. It is equipped with a wall bracket and so arranged that it swings on a pivot either right or left. The Candler proper is also adjustable and can be set at any degree most convenient to the operator. The powerful light bulb shows all defects in the egg instantly.

No. 625. Complete, including

Cord, Socket, and Bulb. \$1.80, postpaid.

Reliable Reflecto Egg Candler

This Candler is quick in action and shows every defect in the egg instantly. It is equipped with a reflector that adds to the illumination of the entire egg, making it quick and thorough in candling. Can be attached to any light-socket. Complete, including cord and socket for 110 voltage. No. 700. \$1.30, postpaid.



Reliable "Candel-Weh" Combination



A combination Egg-Scale and Egg-Candler. This combination makes it convenient for the operator to grade and candle eggs without extra handling.

The scale is automatic in operation, and indicator arm points to exact weight of eggs per dozen. Graduated from 16 to 40 ounces to the dozen eggs.

Candling can be done at any angle. Equipped with a 60-watt bulb for 110 voltage, complete with cord, sockets, and bulb. No. 550. \$3, postpaid.

Surprise Rat Trap



This Trap is very strongly made, having more stiffening ribs and cross-wires than Traps of similar pattern. Made of No. 17 coppered wire, 16 in. long, 9 in. wide, 7 in. high.

90 cts. each, postpaid \$1

Caponizers

Large profits await the raiser of capons. Pilling's instruments are the acknowledged leaders in this line.



New Philadelphia Caponizing Set

This set has many admirers. It consists of a knife, for making the incision; the spreader, for holding sides open; sharp hook, for piercing skin; the Lansdowne Remover, for removing the testicles. Cords with hooks are for holding the bird. Cup forceps for removing any foreign matter. Prices (postpaid), in velvet-lined case \$3.60; in pasteboard box \$3.30.

PILLING SPECIAL CAPONIZING SET. Used just the same as other Caponizing Sets, except the Testicle Remover cuts, like a pair of scissors, the cord of the testicle clean and clear as a whistle. In oak case with full, easy-to-use directions. \$5.50, postpaid.

French Poultry-Killing Knife



Price 65 cts.,
postpaid

SAFE-EDGE KILLING KNIFE. Exactly same as French Killer except cut on one side only. 65 cts., postpaid.

PILLING ANGULAR KILLING KNIFE. By simply turning the wrist the jugular vein and spinal cord are cut. 65 cts., postpaid.

All Killing Knives are made of finely tempered instrument steel, with nicked handle.

Humane Poultry Killer



Easy to operate and makes a sure kill. Place the blade in the bird's mouth, close the handle, and the bird is brained and bled in one operation. Will work equally well on turkeys, ducks, or geese. \$1.55, postpaid \$1.65.

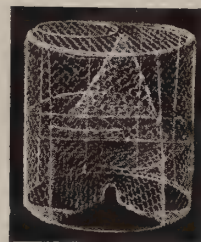
Petty's Poultry Punch

A practical punch for marking baby chicks. Punches a neat clean hole in web of foot. Operates easily. Provides permanent, positive identification. No. 125. 15 cts. each.



Crescent Sparrow Trap

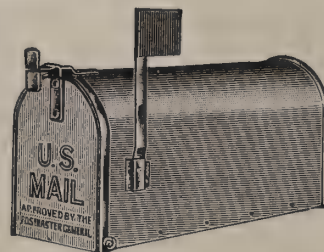
Help Get Rid of English Sparrows



Substantially made and very effective against English Sparrows. All good bird-lovers advocate destroying the English Sparrow. Simply scatter a little grain or bread-crumbs on the ground and set the Trap right over it. Size of Trap 18 by 18 inches in diameter. \$5.00.

Superior Rural Mail-Box

This Mail-Box is of the highest standard of workmanship and excellence of finish. It is absolutely proof against all weather. Opens at end with door hinged at bottom. Made of galvanized steel. Conforms to the latest postal regulations.



No. 1. 18½ x 6¼ x 7½ inches high.....\$1 00
No. 2. 23 ½ x 11 x 13 ½ inches high.....2 75



Raise Every Chick with *Conkeys* Y-O FEEDS

Conkeys Y-O Starting Feed

Every baby pullet lost cuts future egg-profits by at least one dollar. The starting period is the critical time. The feed used the first six weeks determines largely the egg-money they will bring you later. That's why it pays to use Conkeys Y-O Starting Feed. It carries vitamins A, B, D, G, and E.

Approximate Analysis: Protein 18%; Fat 4%; Fiber 7%; N. F. E. 52%.



Conkeys Y-O Growing Mash

Slow-growing pullets cut profits. The sooner they are fully grown and laying, the sooner they start bringing in your investment and the profit dollars. It is the feed more than anything else that determines growth and development. Don't take chances with Profit Dollars—feed Conkeys Y-O Growing Mash every day. It has vitamins A, B, D, G, and E.

Approximate Analysis: Protein 18%; Fat 4%; Fiber 7%; N. F. E. 50%.



Conkeys Y-O Egg Mash

A High-grade Egg Mash at a Surprisingly Low Price

The real difference in Egg Mash is not in the price but in the amounts of egg-building material they contain. Flock owners have found Conkeys Y-O Egg Mash to be dependable. It has everything needed to keep hens vigorous and always on the job. It has an abundant supply of vitamins A, B, D, G, and E. The results will please you.

Approximate Analysis: Protein 20%; Fat 4%; Fiber 8%; N. F. E. 45%



Conkeys Chick Grains

Just the thing to feed in connection with Conkeys Y-O Starting Feed after the chicks are two to three weeks old.

Conkeys Growing Grains

Cracked grains, larger in size than Chick Grains, and balanced especially for growing birds.



More Profits from your POULTRY and LIVESTOCK

Whether it's raising chickens, broilers, turkeys, hogs, or cattle, there's a **Hubbard Sunshine** Feed or Mash to furnish the nutrients lacking in farm grains and make an economical balanced ration that will bring the feeder a more profitable return on his investment.

Feeding the **Hubbard Sunshine** way supplies every necessary vitamin, protein, and mineral, utilizes farm grains to best advantage, and guarantees lower feeding costs and greater profits.

HUBBARD'S SUNSHINE

Turkey Starter Turkey Grower

Outstanding turkey mashes that are making more money for the leading turkey raisers all over the country. Tried on the feed-lot; proved on the market.

HUBBARD'S SUNSHINE

*Broiler Mash Egg Mash
Chick Starter Growing Mash*

Poultry mashes that mean a saving in feed cost and more profitable results in every phase of the poultry business.

For all Livestock and Poultry
Feed the **HUBBARD'S SUNSHINE** Way

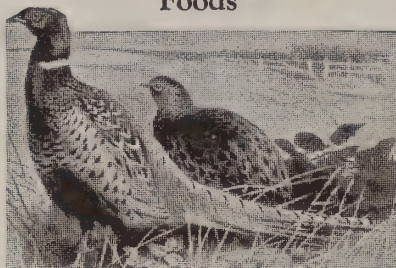
"Chamberlain's Perfect" Chick Starter and Developing Feed
Nature's food for Baby Chicks, Turkey Poults, Bantams, Pheasants, and Ducklings



This original and scientifically correct starting-food is the only dry, granular, baby chick food with animal proteins, buttermilk, and cod-liver oil—all complete in one sack.

It is a wheat and oatmeal basis food, having ground meat, bone, charcoal, and all other essential ingredients. No corn—made right—no bowel trouble.

Spratt's Pheasant and Quail Foods



Prepared strictly according to modern scientific methods and is the result of careful and exhaustive experiments.

It has been demonstrated that to rear birds successfully they must have, while very young, a cooked food. Spratt's Pheasant Meal is composed of cereals, meat, vegetable, bone, and shell in judicious combination. No. 3 Coarse (for adult birds); No. 5 Medium (after three weeks old); No. 12 Fine (before three weeks old).

Ask for free copy of Spratt's Pheasant and Quail Bulletin

Belle Brand Oyster Shells

Crushed Oyster Shells should be kept where the fowls can have easy access to them all the year round. They supply carbonate of lime in natural form, act as a grit, and produce a firm, hard shell. Belle Brand shells are dry, and, having been carefully screened, are free from dust and dirt.

Pratt's Rabbit Pellets

Contains all the ingredients necessary to produce a balanced, nourishing food. Being in pelleted form it eliminates waste and affords an easy, labor-saving way to give just the right amount of cod-liver oil, dried buttermilk, molasses, and other valuable feeding stuffs that cannot be home-mixed with satisfaction.

"Nestco" Buttermilk

A life-saver for chicks. Promotes rapid, healthy growth. Unequaled as an egg-producer for pullets and hens. Feed it regularly and watch your young stock grow and develop into active, healthy birds. It can be fed with safety in any quantity to all poultry, regardless of age. Nestco Buttermilk is well known for its quality and freshness.

Yankee Brand Dried Buttermilk

It contains everything found in whole milk, and whole milk is universally recognized as the best food for man or animal. It contains no fibre. Every ounce of it is utilized in maintaining and building animal tissues, as it contains the most valuable constituents of all foods. Contains 32 to 33 per cent milk protein and 5 per cent fat.

Yankee Brand Dry Skim-Milk

A sweet, cream-colored powder, rich in vitamins and almost totally soluble in water. It carries an average analysis of 32 per cent protein, and contains no fibre. One hundred pounds of Dry Skim-Milk represents the total milk solids found in 1,200 pounds of liquid skim-milk, and supplies the vitamins, protein, and mineral matter (especially calcium) which are essential in the diet of all young animals for rapid growth.

Kraco Dried Whey

"Kraco" is made from liquid cheese whey and contains valuable elements of milk including Vitamin G (Riboflavin), the filtrate factor, lactose, and other milk constituents.

For Baby Chicks. Feed $7\frac{1}{2}$ per cent "Kraco" Dried Cheese Whey.

For Growing Birds. Feed them 5 per cent "Kraco."

For Laying Hens. Three per cent "Kraco" will help keep layers in condition.

For Coccidiosis. A ration which includes "Kraco" as 25 per cent of a good mash, will help control this disease when proper sanitary precautions are taken.

"Moreggs"

(50% Meat and Bone Scrap)

Obtained from freshly rendered meat trimmings. It is completely dried so that it may be stored indefinitely and extra finely ground and screened for mixing in mashes. It contains all the food value of the meat and supplies the necessary protein and bone phosphate for egg-making. Analysis: Protein (min.) 50 per cent; Fat (min.) 8 per cent; Fibre (max.) 3 per cent.

Struven's Fish Meal

Fish Meal is an excellent source of proteins and minerals for all types of farm feeds. It may be used in combination with the meat by-products and milk, or as the sole source of animal protein in any ration. Protein is guaranteed 55 per cent. Fibre is less than 1 per cent.

For sturdy, thrifty stock, we recommend using Struven's Fish Meal in every ration.

Pearl Grit

A clean, white limestone Grit which is of proper hardness to serve as a grinder and at the same time, because of its high calcium carbonate content, supplies the necessary minerals for growing chicks and laying hens. Furnished in two sizes—coarse for poultry and fine ground for chicks.

Mica Crystal Grit

Mica Crystal Grit contains the proper combination of Mica, Quartz, Aluminum and Iron essential to all kinds of poultry. The peculiar formation of this grit, containing a large per cent of small flakes of Mica, assures at all times a sharp grinding surface. Furnished in three sizes, "Poultry," "Pigeon," and "Chick," all at the same price.

Broschkowsky's Health Grit

For pigeons. Every ingredient entering into its composition is the best obtainable, clean and is prepared amid sanitary surroundings. It contains nothing injurious of any nature; keeps your birds' digestive organs in prime order; provides the proper shell material; assists the birds in the moult; raises more and stronger youngsters; and wards off many troublesome diseases.

Red Cross Health Grit

A formulated mixture containing a great variety of gritty particles and materials with tonic properties, including everything the bird needs in proper proportions. Contains in condensed form the best tissue-building ingredients for birds known to science. A reconstructive tonic mixture of only pure properties.

Poultry Charcoal

Keeps poultry strong, healthy, and in good laying condition. Aids digestion, corrects wrong feeding and prevents disease. Fowls young and old should have free access to it at all times. We carry two sizes in stock—Medium and Fine.

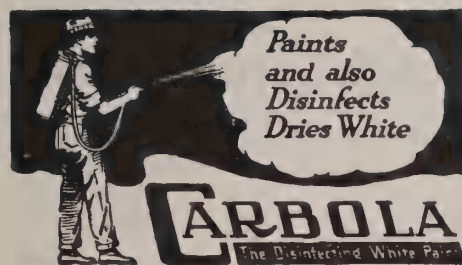
Cut Red Clover

Cut Red Clover is one of the best green feeds for winter egg-production. The grade we offer is the purest and best to be had. Makes an excellent litter for chicks.

Miscellaneous Seeds and Grains

Cracked Corn	Whole Flaxseed
Whole Corn	Flaxseed Meal
Pigeon Corn	Barley
Pinhead Oatmeal	Wheat
Hulled Oats	Buckwheat
Sunflower Seed	Millet
Hemp Seed	Alfalfa Leaf Meal
Canary Seed	Oil-Meal
Rape Seed	Gluten Meal
Kaffir Corn	Cotton Seed Meal
Pigeon Peas	

Our stocks of the above are carefully selected and will be found equal to any on the market.



A white paint and powerful disinfectant combined in powder form. Stir the powder in a pail of water and it is ready for brush or sprayer. *Does not clog sprayer. Won't peel or flake.*

It gives walls and ceilings a smooth, white finish, increases the light, improves the appearance, and helps make buildings clean, sweet-smelling and free from mites and contagious disease germs. For dairies, poultry houses, cellars, dog-kennels, rabbit-hutches, garages, tree-trunks, etc. One pound covers about 100 square feet.

5 lbs. 60 cts., 10 lbs. \$1, 25 lbs. \$1.90, 50 lbs. \$3.50.

PIC Peat Moss Poultry Litter

If you want an easy way to save yourself disagreeable work and at the same time give your birds a clean, sanitary home, be sure to use PIC Poultry Litter. Leading poultrymen everywhere prefer it because of its many outstanding superiorities.

PIC Poultry Litter is clean, sanitary and easy to use. It keeps houses warm, dry, and free from dampness; it eliminates the need for monthly litter change.

Bales weigh about 150 pounds and cover about 100 square feet, 3 inches deep. Price \$4.25 per bale; 5-bale lots, \$4.10 per bale. Delivery prepaid in Pittsburgh and suburban districts.

Stazdry Poultry Litter

An ideal all-round Litter for poultry and brooder houses. It is economical because of its low price, large coverage per bale, and its lasting qualities. \$1.85 per bale; 5-bale lots, \$1.80 per bale, delivered in Pittsburgh and suburbs.

Animal-Poultry Yeast Foam

Vigor Personified



A live yeast product. The benefit in yeast-feeding comes from fermentation of the mash brought about by the enzymes which are found in live yeast. Fermentation of a poultry mash increases its palatability. A-P Yeast Foam can also be fed to all kinds of animals and livestock. Mix it in the

feed for cattle, hogs, dogs, rabbits, turkeys, chickens, pigeons, ducks and foxes. 4-lb. box \$1.

Vit-D-100

Vitamin D from Fortified Cod-Liver Oil in Dried Form

Vit-D-100 is a cereal absorbate powder containing natural Vitamin D from fortified cod-liver oil. It is guaranteed to contain 100 A. O. A. C. Chick units of Vitamin D per gram. The stability of the Vitamin D content has been conclusively proved by recognized tests. It is unusually easy to mix with feed, and assures an economical source of Vitamin D.

Lb. 25 cts., 5 lbs. \$1.10, 10 lbs. \$1.90, 25 lbs. \$4.25, 50 lbs. \$8, 100 lbs. \$15.

Nopco XX Cod-Liver Oil

A uniform, dependable vitamin A and D supplement for daily use in all poultry and live-stock feeds. **Nopco XX** is not only for poultry. Hogs, calves, dairy cows and other animals need vitamins A and D, too. **Nopco XX** is not ordinary cod-liver oil. Each gram of **Nopco XX** is guaranteed to contain 400 A. O. A. C. chick units of vitamin D and 3,000 U. S. P. units of vitamin A. It's economical!

2-lb. can \$1.50, 5-lb. can \$3.10. Price on larger quantities quoted on request.

Morti-Cocci

Used and recommended by many leading poultrymen for the control of coccidiosis. It should always be kept on hand for immediate use at the first symptoms of the disease. Add it to the drinking-water. A gallon will eradicate the disease from 500 chicks. Complete directions on package.

Qt. \$1.25, ½gal. \$2, gal. \$3.

Toxite Disease Control Spray

Invaluable for the control and prevention of disease and parasites. This powerful germicide kills all disease germs, including coccidiosis and tapeworm eggs. Equally effective for killing lice, red mites, fleas, ticks, bedbugs, ants, roaches, and other pests. Easy to use. Safe. Inexpensive. Approved by leading authorities and experimental stations.

Qt. 50 cts., gal. \$1.50, 5-gal. drum \$6.50.

Iodine Suspensoid Merck

The practical, economical way to destroy coccidial oöcytes, the eggs of the parasite that causes coccidiosis, one of the most serious and wide-spread diseases of poultry. Usually appearing in chicks about three weeks of age, this disease causes a very high death-rate from then on until the age of three months.

A concentrated product to be diluted with water.

½-lb. bottle \$1.90, 1-lb. bottle \$3.50.

K-R-O Kills Rats

Cannot kill livestock or poultry. Non-poisonous; sure death to rats and mice. Ready to use. 6-oz. size 35 cts., 22-oz. size \$1.



Fox's Cannibalism and Pick-Out Control

A specially prepared red stain that is painted on the windows. It is transparent, moisture-proof, and can be applied on inside or outside of the windows and can be used on glass, Cel-O-Glass, or glass substitutes. Gives off a red glow under which chicks cannot distinguish blood. Stops instantly cannibalism in chicks and pick-outs in laying pullets. One pint covers 60 to 80 square feet of glass.

½-pt. can 90 cts., 1-pt. can \$1.50, 1-gal. can \$8.50.

Pik-Rem

Stops Cannibalism

Pik-Rem is not a medicine but a help in breaking the vicious habit of chicks picking each other and will quickly break up the condition known as cannibalism. It is blood-colored and blood-soluble, making it adhere to raw bloody surfaces. Very effective and harmless.

5-oz. jar 50 cts., 12-oz. jar \$1, 26-oz. jar \$2, postpaid.

Toxite Veterinary Ointment

Invaluable for treating cuts and sores of all animals. It is both healing and antiseptic. Controls cannibalism and tail-picking in poultry. 4-oz. jar 50 cts., postpaid.

BOOKS

Poultry

American Standard of Perfection. Published by the American Poultry Association and is the American authority on the recognized characters of all breeds of chickens, turkeys, ducks, and geese. Contains nearly 500 pages, 218 illustrations. Cloth binding, \$2.50.

Egg Record and Account Book. A simple, easy method of keeping correct accounts by the day, month, and year, of all expenses and income. Also a record of all eggs laid, set, or sold; of chicks hatched and sold, and a record of orders as filled. 40 cts.

Best Plans of Poultry-Houses. Following the plans in this book is assurance that you will have a satisfactory poultry-house at the least expense. Illustrated. 50 cts.

Best Methods of Feeding. This book gives, in boiled-down, plain descriptions, the methods of feeding which have produced the best results. 50 cts.

Best Methods of Culling. Tells how to select good layers from the poor layers. Illustrated. 50 cts.

Pigeons, Squabs, and Turkeys

A to Z of Pigeons. By E. J. W. Dietz. New edition. The last word on pigeons. 156 pages; 51 illustrations. \$1.

National Standard Squab Book. By E. C. Rice. All about breeding pigeons and growing squabs for market. 512 pages; 240 illustrations. \$2.

Turkey Production. By L. E. Cline, B.S., M.S. A complete text on breeding, feeding, handling, marketing, and disease control, prepared for the use of turkey producers and agricultural students. 450 pages; illustrated. Cloth, \$3.50.

Conkeys Aids to Poultry Health and Profits

The secret of poultry profits lies in good birds, careful handling, good feed, and prevention of disease. For more than thirty years Conkeys have contributed to poultry raisers' profits by supplying effective aids to health and productivity. You will do well to keep these products on your poultry shelf—for regular use and emergencies:



Conkeys 20 to 1 Nox-I-Cide. Serves many purposes. Use it in solution as a disinfectant spray for control of coccidiosis and other diseases; to help keep down mites, ticks, blue bugs, etc.; for washing incubators, brooders, fountains, etc. It's unusually economical because it can be diluted.

Pt. 40 cts., qt. 60 cts., 2 qts. 90 cts., gal. \$1.50, 5 gals. \$6.75, 10 gals. \$12.75.

Conkeys Poultry Tonic. Aids appetite, digestion, and helps your birds to get more out of their feed.

1½ lbs. 25 cts., 3½ lbs. 50 cts., 6½ lbs. \$1, 50 lbs. \$5.25, 100 lbs. \$9.75.

Conkeys Old Reliable Powder. Has been used successfully for over 30 years. It's a fine "first aid" for treating poultry ailments and acts as a tonic too.

Oz. 25 cts., 2½ ozs. 50 cts., 7 ozs. \$1, 1½ lbs. \$2.35, 5 lbs. \$7, postpaid.

Conkeys Dia-Tabs. In the drinking water helps to keep chicks and poult healthy. As a mild intestinal astringent, this medicant is good for all classes and ages of poultry.

25 tablets 25 cts., 55 tablets 50 cts., 125 tablets \$1, 500 tablets \$3, 1000 tablets \$5.50, all postpaid.

Conkeys Lice Powder. Adheres to flesh and feathers and destroys lice and mites that suck the energy from your birds. For individual treatment or use in dust-bath.

12 ozs. 25 cts., 6-lb. pail \$1.50, postage prepaid.



Conkeys Inhalant Spray. A soothing aid for mucous membranes in mouth, throat, nostrils, and upper respiratory tract of poultry. Easy to use as a spray, vapor, or dip.

4 ozs. 65 cts., 8 ozs. \$1, 16 ozs. \$1.75, 32 ozs. \$3.25.

Conkeys Poultry Pills. A handy and effective expectorant to assist poultry in expelling accumulation of mucous in upper respiratory tract. Especially good to use if birds are exposed to drafts or sudden temperature changes.

75 pills 35 cts., 175 pills 75 cts., 500 pills \$1.75.

Conkeys Y-O. A vitamin food containing cod-liver oil, brewers' yeast and wheat-germ oil, which prolongs the potency of A, B, D, E, and G Vitamins so necessary for complete digestion. It comes in powder form and mixes readily with any poultry mash. Only 2 to 3 per cent of this potent vitamin food is required.

Lb. 50 cts., 2 lbs. 90 cts., 5 lbs. \$1.60, drums (25 lbs.) \$5.45, 50 lbs. \$9.25, 100 lbs. \$16.50.

Conkeys Nikala Worm Tablets. For large roundworms. When birds are not laying properly, look for evidence of worms and give them this effective treatment.

Pullet size: 200 tablets \$1, 2000 tablets \$9.

Adult size: 100 tablets \$1, 1000 tablets \$9.

Conkeys 100-to-1 Powder. For large roundworms. Worms are one of the major causes for depleted vitality and productivity of poultry. Keep them under control before heavy infestation sets in. Mix 100-to-1 Powder in your mash for chicks and grown birds alike.

4 ozs. 30 cts., lb. \$1, 2 lbs. \$1.75, 5 lbs. \$4, 10 lbs. \$7.50.



Burrell-Dugger Poultry Remedies

Burrell-Dugger Poultry Remedies have been used by thousands of poultry owners, from coast to coast, for many years, and they have more than made good. They are specialized remedies for poultry, produced in an up-to-date modern laboratory, just as scientifically and carefully as medicines for human beings.



DON SUNG

Tonic and Conditioner
for Laying Hens

Don Sung is a concentrated medicine—no bulk or filler—ready to add to the mash-feed. It has a direct tonic action and doesn't force or hurt the hen in any way. It does its wonderful work by putting the hen in good health, and helping maintain that health. Small package enough for 15 hens for one month.

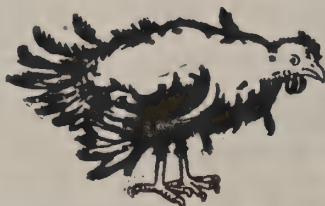
Don Sung Tablets: Small size (45 tablets) 50 cts.; large size (3 times 50-ct. size) \$1; special size (6 times \$1 size) \$5, postpaid.

T. S. F. (Talcimized
Sodium Fluoride)

Kills All Poultry Lice

An effective preparation to get rid of poultry lice. It kills all lice, including the lice that hatch from eggs present on the fowl at the time of treatment.

½lb. 35 cts., lb. 60 cts.



"I Need T. S. F."



For Chick
Diarrhea

Don't sit back, and say your loss of baby chicks can't be stopped. It can be stopped—easily, quickly, and at almost no expense by using Avicol in the drinking-water. Avicol is a special bowel astringent, and helps the chick withstand infection.

It is easy to give. The chickens doctor themselves.

After you have once tried Avicol, you would no more think of trying to raise baby chicks without it than you would think of denying them food. It should be in the very first water the little chicks drink.

Price, 50 cts.; large size (holds three times 50-ct. size) \$1; economy size (6 times \$1 size) \$5, postpaid.



Group-Over

Positive Guaranteed Treatment for
Colds in Poultry

Keep a bottle of Group-Over on hand, and at the first symptom of a cold in your flock, start giving it to every affected bird. It clears the air-passages and brings relief with magic quickness. Group-Over is easily given. It comes in a liquid form and a few drops do the work.

Prices, 50 cts.; \$1 (2½ times 50-ct. size); \$3 (4 times \$1 size), postpaid.

Pratts Poultry Remedies

Pratts Poultry Regulator. Contains "Trace Elements." Sold on money-back guarantee of "More Eggs in 15 days or your money back." Added to the mash it helps hens lay. Pkgs. 25 cts. and 50 cts., 12½-lb. pkg. \$1.60, 25-lb. pail \$3, 100-lb. drum \$10.

Pratts Dip and Disinfectant. Should be used liberally by all livestock and poultry owners to help control worms, lice, and all diseases. Pt. 40 cts., qt. 55 cts., gal. \$1.50, 5-gal. can \$5.75.

Pratts R-P Tablets. Helps keep drinking-water safe and thereby prevents spread of colds and "roupy" condition through the flock. Pkgs. 25 cts. and 50 cts.

Pratts Chick Tablets. New—they're floated. Far superior to other chick drinking-water preparations. They keep the water safe 24 hours a day. Pkgs. 30 cts. and 60 cts., postpaid.

C-Ka-Gene. Stops heavy losses from bloody coccidiosis. Works by the "immunity" (permanent protection) method. Given in the feed, no handling of birds. Pkg. (50 chicks) 75 cts., pkg. (100 chicks) \$1.25.

Pratts "Split-Action" N-K Capsules. An individual treatment for poultry infested with large roundworms and large tapeworms.

Adult Size: 50 capsules 85 cts., 100 capsules \$1.50, 500 capsules \$5.50, 1,000 capsules \$10, postpaid.

Chick Size: 50 capsules 55 cts., 100 capsules \$1, 500 capsules \$3.75, 1,000 capsules \$6.50, postpaid.

Pratts Poultry Worm Powder. A flock-treatment for poultry infested with large roundworms. Feed it in the mash. 75-ct. pkg. (100 hens), \$2.50 pkg. (500 hens), \$4.50 pkg. (1,000 hens).

Pratts Roost Paint. A modern poultry lice and mite killer. Contains nicotine in a special activated base. Applied to the roosts. 2 oz. 35 cts., ½pt. 85 cts., pt. \$1.50, qt. \$2.25, gal. \$7.

Pratts Powdered Lice Killer. An old stand-by for delousing poultry, stock, and pets. Pkgs. 30 cts. and 60 cts.

Lippincott's Poultry Remedy

For the control of roup, Lippincott's has never failed to give quick results when used in the proper way and the birds properly housed. 25c, 50c, and \$1 per bottle, ppd.

Walko Tablets

For the drinking-water for baby chicks, turkeys, ducks, geese, or older fowls.

Especially valuable for diarrhea and loose-bowel trouble among baby chicks. Powerfully destructive to germ-life, yet perfectly safe to give little chicks in their drinking-water as soon as they are out of the shell. 50 cts. and \$1, postpaid.

Rutland Water Glass

Prepared especially to keep eggs fresh over a period of time. One quart will preserve from 15 to 20 dozens of eggs.

Pt. 15 cts., qt. 25 cts., gal. 85 cts.

Dr. Salsbury's Poultry Medicines

As a member of Dr. Salsbury's National Wide Poultry Health Service, we have, at all times, the latest bulletins, booklets, and literature of the scientific poultry world. Ask or write us for free educational literature.

Avi-Ton. For chickens and turkeys. Avi-Ton is a flock treatment for the removal of roundworms, and also contains ingredients that are recognized as having a beneficial effect on digestion and the digestive organs. In powder form. Avi-Ton mixes easily in wet or dry mash. 10-oz. pkg. 25 cts., 3-lb. pkg. \$1.10, 6-lb. pkg. \$2, 15-lb. pkg. \$4.75, 25-lb. drum \$7.50, 50-lb. drum \$14, 100-lb. drum \$27.

Can-Pho-Sal. A medicinal expectorant to be diluted with water to make an antiseptic spray for pneumonia, bronchitis, roup, colds, and all respiratory diseases. 2-oz. bottle 45 cts., 4-oz. bottle 75 cts., 8-oz. bottle \$1.10, 16-oz. bottle \$1.85, 1-qt. bottle, \$3.50, ½gal. \$6.75, gal. \$13.

Phen-O-Sal. Widely used for bowel troubles in baby chicks and fowls of all ages. In tablet form. They dissolve quickly, and 125 tablets medicate more than 60 gallons of drinking water for baby chicks. 25 tablets 25 cts., 50 tablets 50 cts., 125 tablets \$1, 300 tablets \$2, 500 tablets \$3, 1,000 tablets \$5.50.

Rakos. A first-aid treatment for acute or chronic coccidiosis. Preferably used in scratch grain, but can also be used in the drinking-water. Rakos is antiseptic, acidifying, and astringent in action, and should be used at the first sign of watery, bloody or yellow droppings in growing birds. 1 qt. treats 300 growing birds. ½pt. 75 cts., pt. \$1.25, qt. \$2, ½gal. \$3.50, gal. \$6.

Bacterin (Avian) Turkey Formula. For building resistance to common bacterial diseases affecting turkeys, especially cholera, typhoid and para-typhoid infections. Also useful against colds. It may be used on ailing as well as on healthy flocks. It is administered with a syringe. One 60 c.c. bottle 85 cts., 2 60 c.c. bottles \$1.60, 1 250 c.c. bottle \$3, 2 250 c.c. bottles \$5.75, 4 250 c.c. bottles \$10.

Bacterin (Avian) Chicken Formula. Whole culture bacterin used for the vaccination of chickens, turkeys, pigeons, and game birds to increase resistance against bacterial forms of roup and colds. It may be used on ailing as well as healthy flocks. Average dose 1 c.c. injected with syringe. 60 c.c. 85 cts., 250 c.c. \$3, 500 c.c. \$5.75, 1,000 c.c. \$10.

Rota-Caps. Recommended for the removal of tapeworms and roundworms in chickens and turkeys. No toxic after-shock; no loss in egg-production or set-back in growth.

Adult Size: 50 caps 75 cts., 100 caps \$1.35, 200 caps \$2.50, 500 caps \$5.

Pullet Size: 50 caps 50 cts., 100 caps 90 cts., 300 caps \$2.50.

Dr. LeGear's Poultry Prescriptions

Dr. LeGear's Poultry Prescription. This wonderful tonic contains mineral and vegetable ingredients, scientifically compounded to produce an efficient tonic, appetizer, conditioner, and regulator. 1¼-lb. pkg. 25 cts., 3-lb. pkg. 50 cts., 7-lb. pkg. \$1, 25-lb. pkg. \$3.

Dr. LeGear's Poultry Ascarid Worm Powder. Flock treatment for large roundworms in growing chicks, laying hens, and turkeys. 1½-lb. pkg. 50 cts., 25-lb. pkg. \$5.50.

Dr. LeGear's Dip and Disinfectant. Antiseptic disinfectant, germicide, and deodorant. Use regularly to keep poultry houses, incubators, brooders, etc., sanitary and free from lice and mites. 8 ozs. 25 cts., qt. 50 cts., gal. \$1.50.

Dr. LeGear's Nicotine-Kamala Pills. For individual treatment. One pill does the work—no fasting. **Adult Size:** 50 tablets 75 cts., 100 tablets \$1.25, 500 tablets \$5. **Chick Size:** 50 pills 50 cts., 100 pills 75 cts., 500 pills \$2.50, postpaid.

Dr. LeGear's A-A Poultry Tabs. An astringent drinking-water medication for poultry of all ages. Especially valuable in diarrhea. 20 tablets 25 cts., 50 tablets 50 cts., 120 tablets \$1, 500 tablets \$3.75, postpaid.

Dr. LeGear's Lice Powder. Quick and effective in getting rid of lice and mites on poultry or in nests. Kills them as if by magic. 14-oz. can 25 cts., postpaid.

Dr. Hess Products

Dr. Hess Poultry Pan-A-Min. Its tonics promote appetite; keep hens healthy; start pullets and moulted hens to lay. Formerly known as Dr. Hess Panacea. 1½-lb. pkg. 25 cts., 3-lb. pkg. 45 cts., 7-lb. pkg. 95 cts., 15-lb. pkg. \$1.90, 25-lb. pkg. \$2.85, 100-lb. drum \$9.40.

Dr. Hess Poultry Worm Powder. A proved single-dose flock treatment for roundworms. Given in mash, the expulsion of worms starts in a few hours and is usually completed in from 24 to 36 hours. No fasting or laxatives required. Does not check egg-production. Four ounces treat 100 birds. 2-oz. pkg. 50 cts., 4-oz. pkg. 90 cts., 10-oz. pkg. \$1.90, 1¼-lb. pkg. \$3, 2½-lb. pkg. \$5.40.

Dr. Hess Poultry Worm Tablets. The active ingredients of Dr. Hess Poultry Worm Powder in tablet form for individual treatment. 40-tablet pkg. 50 cts., 100-tablet pkg. \$1, 250-tablet pkg. \$2, 500-tablet pkg. \$3.50.

Dr. Hess Poultry Tablets. Valuable in treatment of roup; slightly astringent, non-irritating, and healing. Used as a local antiseptic and to medicate drinking-water. Aids in preventing disease. 25 cts., 50 cts., and \$1, postpaid.

Dr. Hess Powdered Louse-Killer. Effective in ridding poultry of lice and mites. 1-lb. pkg. 30 cts., 2½-lb. pkg. 65 cts.

B-K Poultry Disinfectant

A powerful quick-acting hypochlorite disinfectant used as an aid in preventing the spread of diseases by contaminated equipment and drinking-water. It is not only a powerful disinfectant, but also a deodorant.

B-K Powder is used as a dry expectorant dust and is applied by means of a dust gun over the heads of baby chicks and adult birds infected with colds, simple bronchitis and infectious bronchitis.

Powder		Postpaid
9½-oz. bottle.....	\$0 75	\$0 85
1¼-lb. bottle.....	1 50	1 60
Liquid		
4-oz. bottle	\$0 30	\$0 40
10-oz. bottle	50	60
1-qt. bottle	90	1 05
	Not Postpaid	
1-gal. bottle.....	\$2 00	
5-gal. jug.....	8 50	

HTH-15

Don't let colds and other respiratory troubles sap the strength of your breeding flocks. Dust with HTH-15 to prevent and combat these ailments. Use it regularly in the drinking-water to prevent spread of infection. Invaluable disinfectant for brooders and incubators. 1-lb. can 50 cts., 3-lb. can \$1, case of six 3-lb. cans \$5.

Williams Acid and Ipecac Compound for Turkeys

For the treatment and prevention of blackhead in turkeys of all ages. Used in drinking-water or in severe cases may be administered with a syringe into the crop. Pt. \$1.75, qt. \$2.75, gal. \$10.



Chic-Tone
FOR POULTRY
REG. U.S. PAT. OFF.

Chic-Tone in the drinking-water increases the appetite and builds up vitality. It is both an intestinal antiseptic and general tonic. Protects against many intestinal disorders—helps to keep your birds healthy, aiding them to get maximum value from the feed consumed. Poultry raisers everywhere are finding Chic-Tone in the drinking-water is a safeguard and insurance against low vitality. Qt. \$1, gal. \$3.50, 5 gals. \$13.75.

Chick-Tone Inhalant

When poultry raisers pour Chic-Tone in the drinking-water and spray Chick-Tone Inhalant in the air, their death-losses from colds and respiratory ills are kept way down, and that applies to birds of all ages from baby chicks to old hens. Powerful, germ-killing gases and healing oils in Chic-Tone Inhalant are inhaled by birds, opening up the nostrils, causing discharge of mucus, healing irritated membranes. Do not dilute. Spray right into faces of birds. Qt. \$1, gal. \$3.50, 5 gals. \$13.75.

Barnes Emulsion



A scientifically tested vitamin-containing product which can be fed with safety to domestic animals and poultry. If your chickens are backward in growth and development, have pale faces and shanks, and stand around droopy,

with eyes closed; if some of your birds "go light," then die; or if they are affected with brownish diarrhea, the cause is likely to be intestinal worm-infestation.

Obtain a can and prove to yourself its merit and effectiveness. Qt. \$1, gal. \$3, 5-gal. keg \$12.50.

Ask for 32-page booklet "Common Sense vs. Worms."

"Black Leaf" Worm Powder

CONTROLS POULTRY ROUNDWORM

An odorless, tasteless, dry compound containing nicotine that remains insoluble until it reaches the intestines where large round-worm infestation occurs. This product furnishes "one-shot" control of roundworm without handling the birds and without the disturbance caused by individual handling.

"Black Leaf" Worm Powder is easily fed in mash. The dose for 100 birds is 4 ounces, mixed in a gallon of mash, fed the first thing in the morning. 4-oz. pkg. 75 cts., 1½-lb. pkg. \$3, 3-lb. pkg. \$5.60, ppd.

"Black Leaf" Worm Pellets. Produced from "Black Leaf" Worm Powder. Highly efficient. 85 cts. per 100, \$3.25 per 500, \$6 per 1,000, postpaid.

Gold-Leaf Tobacco Powder

Manufactured especially to control roundworms in poultry. So certain is its action that it may well be considered a specific for the control of this trouble. The treatment is exceedingly inexpensive.

Mix two pounds of Gold-Leaf Tobacco Powder with 100 pounds of dry mash. 2-lb. carton 25 cts., 10-lb. package 75 cts., carton (6 10-lb. packages) \$4.

Iodine Vermicide Merck

Kills worms in poultry the approved way. One gallon of diluted material is sufficient to treat about 125 adult birds. Iodine Vermicide will not throw birds off egg-production, but will, if properly used, increase it materially. ½-lb. bottle \$1.80, 1-lb. bottle \$3.25.

Dosing Appliance, chick or poultry size 35 cts.; adult turkey size \$1.

McKeon's "Liquid Sulpho"

THE HEALTH INSURANCE FOR POULTRY AND RABBITS

Used daily in drinking-water eliminates and prevents large roundworms and other intestinal diseases. Rids and keeps birds free of lice. 3-oz. bottle 50 cts., 8-oz. (medicates over 1,200 gals. of water) \$1, postpaid. Unconditionally guaranteed.

Carbolineum

Standard Insecticide and Wood Preserver
Since 1876

One thorough application of Avenarius Carbolineum, either by brush or sprayer, to the walls, droppings-boards, roosts, etc., of buildings, will kill all mites by direct contact and effectually stop their propagation. Only necessary to apply once a year.

Avenarius Carbolineum is composed of non-volatile anthracene oils and other ingredients, and represents the very cream of wood-preserving oils. It will not evaporate or leach from wood in a short time, but will remain there almost indefinitely.

Termites (white ants) will not attack Avenarius Carbolineum treated wood. Even after they have been found, future infestations may be prevented if Avenarius Carbolineum is applied.

1-gal. can \$1.60, 5-gal. can \$7, 10-gal. drum \$13.50.

35-gal. steel barrel \$39.20, 55-gal. steel barrel \$57.75, shipped from factory, freight prepaid.



Zenoleum

An efficient insecticide, disinfectant, deodorizer, germicide, and cleanser. It is essentially a solution of coal-tar creosote oil soap and gives a most perfect emulsion when mixed with water. Use it as a spray in poultry houses and kennels, dip for sheep and lice on horses and cattle. Makes an excellent wash for dogs. One quart makes about 25 gallons of solution. 8-oz. can 35 cts., 1-qt. can 75 cts., ½-gal. can \$1.25, 1-gal. can \$2.

"Black-Leaf 40"

Controls Poultry Lice and Mites

A sure method for controlling body-lice. With the "Cap-Brush" Applicator, the 1-ounce bottle will treat about 90 birds, other sizes in proportion. (Applicator included in the 1-oz., 5-oz., and 1-lb. bottles.)

When used as a spray, dilute at the rate of 2 to 3 tablespoonfuls to 1 gallon of water and add about ¼ bar of laundry soap. 1-oz. bottle 35 cts., 5-oz. bottle \$1, 1-lb. bottle \$2.25, 2-lb. tin \$3.25.

Roto Pigeon Salt

A necessity to the health of pigeons. In brick form. Size of Bricks, 7½ x 3½ x 2 inches. Each, 25 cts., postpaid 35 cts.; doz. \$2.75, postpaid \$2.90.

Ex-Cel-So Rabbit Salt Spool

Keep your stock healthy and in good condition by keeping Salt Spools always before them. Prevents common disorders and disease. Two kinds: pure salt and salt with sulphur added. Either kind, 5 cts. each, 50 cts. per doz., postpaid 70 cts. per doz.; 100 for \$3.50.

Dog and Pet Foods and Supplies



BANNOCK DOG FOODS

For ALL DOGS . . ALL BREEDS . . ALL AGES

BANNOCK BODY BUILDER

"Dog Food at Its Best"

Healthful, economical, and convenient to feed, Bannock Body Builder is a balanced ration, containing all of the food elements necessary for the proper nutrition of dogs. Proteins, vegetables, fats, minerals, vitamins, and Fleischmann's Irradiated Yeast—all especially selected and in correct proportion. Breeders, trainers, and veterinarians alike recommend Bannock Dog Foods.

I have been feeding *Bannock* Dog Food for a number of years. My Bostons, as well as other Terrier breeds, relish it and do well on it. *Bannock* is easy to prepare and is a wonderful food.—J. M. BALSLEY, breeder of Bostons, and judge of small-breed dogs for many years.

BANNOCK DOG BISCUIT

"Good Food for Good Dogs"

To suit all feeding programs, Bannock Dog Biscuits are made in both Regular and Whole Wheat formulas. Both kinds are available either whole or kibbled.

Bannock Dog Biscuits are fed dry or soaked. Kennel owners and breeders use Bannock Dog Biscuits because they are higher in digestible proteins, contain the necessary vitamins, and are expertly blended with carefully selected carbohydrates.

Bannock Body Builder

5-lb. bag.....	\$0 45	50-lb. bag.....	\$3 35
10-lb. bag.....	85	100-lb. bag.....	6 25
25-lb. bag.....	1 90	500 lbs.....	28 75

Bannock Dog Biscuit

	Regular Biscuit	Whole Wheat		Regular Biscuit	Whole Wheat
5 lbs.....	\$0 55	\$0 60	50-lb. bag.....	\$3 90	\$4 00
10 lbs.....	90	1 00	100 lbs.....	7 25	7 50
25 lbs.....	2 00	2 10	500 lbs.....	33 75	35 00

Furnished in cakes, medium kibbles, or small kibbles

Spratt's Dog and Puppy Foods

For over eighty years, Spratt's "Meat Fibrine" Biscuit Foods have been termed "Foods of Quality." They lead in nourishing properties, suitability to the constitution of present-day dogs, and in economical value. Their reputation is world-wide.

SPRATT'S FIBO. An appetizing granulated food for shy and dainty feeders. Suitable for change of diet for any dog at any time. Feed dry or soaked with broth. Lb. 20 cts., 2 lbs. 35 cts., 5-lb. bag 80 cts., 25-lb. bag \$3.45, 100-lb. bag \$12.50.

SPRATT'S OVALS. Handy pocket biscuits suitable for all breeds. Carry a few when on a ramble with your dog. Lb. 15 cts., 2 lbs. 28 cts., 5 lbs. 70 cts., 25-lb. bag \$3, 100-lb. bag \$11.25.

SPRATT'S SPIX. Meat fibrine biscuit, bone size. All dogs like this biscuit. Lb. 20 cts., 2 lbs. 35 cts., 5-lb. bag 75 cts., 25-lb. box \$3.20, 50-lb. box \$5.90.

SPRATT'S CHARCOAL OVALS. Aid in the elimination of fetid breath and stomach impurities. Lb. 15 cts., 2 lbs. 28 cts., 5-lb. bag 70 cts., 25-lb. bag \$3.15, 100-lb. bag \$11.75.

SPRATT'S COD-LIVER OIL OVALS. Aids in the conditioning of dogs; invaluable during the winter months. Lb. 15 cts., 2 lbs. 28 cts., 5 lbs. 70 cts., 25-lb. bag \$3.15, 100-lb. bag \$11.75.

SPRATT'S CHALLENGE TERRIER MEAL. Granulated meat fibrine food. 5 lbs. 60 cts., 25-lb. bag \$2.85, 50-lb. bag \$5, 100-lb. bag \$9.50.

SPRATT'S MEAT FIBRINE DOG CAKES. Standard dog cake for large dogs, used by all leading dog breeders. Lb. 20 cts., 2 lbs. 35 cts., 5-lb. bag 75 cts., 25-lb. box \$3.10, 100-lb. box \$11.15.

SPRATT'S ASSORTED BISCUITS. Gives your dog just the variety of crunchy foods needed for the maintenance of stamina and good health. The combination is made up of Spix, Ovals, Charcoal Ovals, and Cod-Liver Oil Ovals. Lb. 15 cts., 2 lbs. 28 cts., 5 lbs. 70 cts., 25 lbs. \$3.15, 50-lb. bag \$6.

SPRATT'S COD-LIVER OIL CAKES. For the larger breeds of dogs. Lb. 15 cts., 2 lbs. 28 cts., 5-lb. bag 70 cts., 25-lb. bag \$3.15, 100-lb. bag \$11.75.

SPRATT'S PEPSINATED MEAL. For puppies or kittens with weak digestion; is extremely assimilative and will make most unpromising youngsters thrive. 12-oz. can 40 cts.

SPRATT'S PUPPILAC. A perfect substitute for the milk of the bitch, for rearing orphan puppies, at weaning-time and for ailing dogs in sickness or convalescence. This is also valuable as a food for cats and kittens. 10-oz. can 50 cts.

SPRATT'S BONE MEAL FOR PUPPIES. A great preventive of early weakness in puppies, containing all the elements needed to insure vigorous frame. Prepared for easy mixing with the staple food. 20-oz. tin 25 cts., 3-lb. tin 50 cts.

SPRATT'S CALCIUM PHOSPHATE. For Rickets and Osteoporosis. An admirable adjunct in the feeding of puppies of the large breeds. It may also be given to bitches before whelping. Easily assimilated and has no irritating effect on the stomach. 1-lb. can 75 cts.



Dog Furnishings

We offer an extensive selection in Collars, Harness, Leashes, Baskets, Brushes, Nail Clippers, Dressing Tools, Name Plates, Toys, Novelties, Blankets, and Sweaters for dogs. Since this merchandise is too diversified to be included in the Catalogue, we invite you to call at the store and inspect it personally.

Mail and Telephone Orders

We are organized to give mail and telephone orders the same personal attention as orders placed in our store. If it is not convenient to come to the store, we will appreciate your order either by mail or telephone. Orders amounting to \$2 or more are delivered free. See page 143.

PERFECTION DOG FOODS

FREE
32-PAGE
DOG BOOK



TIME-TESTED...
For More Than 25 YEARS

Very little more need be said of these well-known foods—favored by dog and kennel owners everywhere. Certainly a trial will convince you.



FREE
PEDIGREE
BLANKS

MEAT-CEREAL. Ready to feed—
For All Dogs—All Ages.
By far the most popular—

5-lb. bag	\$0 40
10-lb. bag	75
25-lb. bag	1 75
50-lb. bag	3 25
100-lb. bag	6 00
500 lbs.	27 50

CUBES (Meat-Cereal Formula).

5-lb. bag	\$0 40
10-lb. bag	75
25-lb. bag	1 75
50-lb. bag	3 25

KIBBLED BISCUIT.

5-lb. bag	\$0 60
10-lb. bag	1 00
25-lb. bag	2 25
50-lb. bag	4 25
100-lb. bag	8 00

WHOLE BISCUIT.

5-lb. bag	\$0 60
10-lb. bag	1 00
25-lb. bag	2 25
50-lb. bag	4 10
100-lb. bag	7 75

CANNED MEAT FOOD. 1-lb. can
10 cts., 3 for 25 cts., case (48 1-lb.
cans) \$3.90.

FEED A TIME-TESTED FOOD THIS YEAR

MILLER'S DOG FOODS

Battle Creek Health Foods for Dogs



These basic diets for dogs are concentrated and go three times as far as fresh or canned meat foods. They are dry, contain no filler. Guaranteed to please you or money refunded.

KIBBLES

5 lbs.	\$0 60
10 lbs.	1 00
25-lb. sack	2 50
50-lb. sack	4 50
100-lb. sack	8 65

RATION

5 lbs.	\$0 40
10 lbs.	75
25-lb. sack	1 75
50-lb. sack	3 25
100-lb. sack	6 00

PUPPY MEAL

5 lbs.	\$0 60
10 lbs.	1 00
25-lb. sack	2 50
50-lb. sack	4 50
100-lb. sack	8 65

BISCUIT

5 lbs.	\$0 60
10 lbs.	1 00
25-lb. sack	2 40
50-lb. sack	4 50
100-lb. sack	8 65

IT'S THE EXTRA
MEAT IN MILLER'S
THAT "GETS"
ME



In every pound of Miller's Kibbles you get nearly ½ pound of fresh lean meat, with water removed, plus cereals, vitamins, and minerals for a completely balanced basic diet. Kibbles is usually mixed with table scraps for an endless variety of tempting meals.

Bresko Dog Foods

A vacuum-processed Liver Meal. Searching laboratory and kennel tests have revealed its amazing power to build red corpuscles, to prevent anemia, and to make puppies grow into strong, sturdy dogs. Ingredient K is blended with Bresko plus the five health-giving vitamins, A, B, D, E, and G.

BRESKO MEATBONE CRISP. (Kibbled.)

5 lbs. 60 cts., 10 lbs. \$1, 25-lb. bag \$2, 100-lb. bag \$7.25.

BRESKO RATION. 5 lbs. 40 cts., 10 lbs.

75 cts., 25-lb. bag \$1.75, 100-lb. bag \$6.

Pratt's Dog Food

A complete, balanced food in cubed form, made from the sweetest and purest of laboratory controlled ingredients. It is economical and suited to all dogs. 5-lb. bag 40 cts., 10-lb. bag 75 cts., 25-lb. bag \$1.85, 50-lb. bag \$3.25, 100-lb. bag \$6.50.

TI-O-GA DOG FOOD MEAL

This is the original Leon F. Whitney formula perfected to the highest standard of modern canine nutrition. It contains 1,500 calories to the pound, which is twice the energy value of lean beef and provides nutrients lacking in beef. Ti-O-Ga will keep dogs of all breeds in splendid health, and fine coat. 5-lb. bag 55 cts., 10-lb. bag 85 cts., 25-lb. bag \$1.90, 50-lb. bag \$3.60, 100-lb. bag \$6.75, 200 lbs. \$13, 500 lbs. \$31.50.

TI-O-GA PUPPY FOOD

Grows puppies faster than any privately prepared diet. Its high protein content, its abundance of calcium, phosphorus, and vital growth-promoting vitamins insures the best possible growth of puppies. 5-lb. bag 65 cts., 10-lb. bag \$1.20, 25-lb. bag \$2.25, 50-lb. bag \$4.10, 100-lb. bag \$7.75.

HUNT CLUB DOG FOOD

"The Triple Value Ration"

"Triple-Value" because of its superior absorption qualities. Mix it with equal parts of moisture (milk, water, broth, etc.) and its weight is approximately tripled. It is a complete balanced ration, abundant in meat and rich in vitamins, and contains plus quantities of nutritional elements sufficient to keep your dog in top shape, with thick glossy coat and an abundance of vitality. 5 lbs. 45 cts., 10 lbs. 85 cts., 25 lbs. \$1.90, 50 lbs. \$3.35, 100 lbs. \$6.25.

Imperial Dog and Puppy Food

Made from fresh meat food products, cereals, vegetables, kelp, charcoal and cod-liver oil. An ideal food for either dogs or cats and balanced to meet the exacting nutritional requirements of all carnivorous animals. 1-lb. can 10 cts., 3 cans for 25 cts., case (48 cans) \$3.90.

Chappel Bros., Inc. Ken-L-Ration Products

The meat or meat by-product ingredients of Ken-L-Ration have been examined and passed under Federal supervision. It has been prepared in an establishment operating under Federal meat inspection. Ken-L-Ration is safe to put in your ice-box.



KEN-L-RATION

Contains "Earlyne"

Ken-L-Ration is as clean, pure and wholesome as the food used on your table. It is composed of fresh, lean meat, the best grade of whole cereal, and cod-liver oil tested for its vitamin potency. It is the ideal food for growth, body maintenance and health of dogs of all breeds and ages. 1-lb. can 10 cts., 3 for 25 cts., case (48 1-lb. cans) \$3.90.

MARO-MEAT is a basic ration of fresh meat, blood, liver, bone and marrow too highly concentrated for feeding alone. Designed for large consumers as a basic meat ration to be mixed with Ken-L-Biskit and Ken-L-Worth. An economical ration can be made by mixing 5 pounds of Ken-L-Biskit after absorbing its equal weight in water, and a 1-pound can of Maro-Meat. 1-lb. can 15 cts., 2 for 25 cts., case (48 1-lb. cans) \$5.25; 2 1/2-lb. can 35 cts., case (18 2 1/2-lb. cans) \$4.75.

HEMO-RATION. The conditioning food for breeding stock and convalescents. Composed of blood solids, iron, calcium phosphate, meat, cereals and Earlyne. 1-lb. can 15 cts., 2 for 25 cts., case (48 1-lb. cans) \$4.75.

KEN-L-LAC (The Liquid Pet Food). A simulated bitch's milk, vitamin fortified. Solves the weaning problem. Made to fill the nutritive requirements of the growing pup, stimulates the nursing bitch and conditions the sick and convalescent adult dog. 14 1/2-oz. can 15 cts., doz. \$1.50, case (24 cans) \$2.80.

For Economy Feed Chappel's
Fresh Meat Biskits

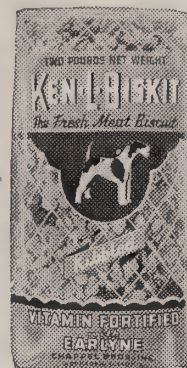
KEN-L-BISKIT

INGREDIENTS

Fresh Meat, Wheat Germ, Yeast,
Egg Yolk, Wheat Flour,
Fresh Whole Milk and Bone

Chappel's Ken-L-Biskit is scientifically prepared from fresh raw meat and carefully selected ingredients. Its nutritional value has been proved in laboratory-controlled feeding tests.

Small cakes, small kibbles, or medium kibbles, 5 lbs. 60 cts., 10 lbs. \$1, 25-lb. bag \$2.15, 50-lb. bag \$4.15, 100-lb. bag \$8.25.



KEN-L-WORTH

A biscuit of high quality, containing a large percentage of fresh, lean, raw meat and the correct amount of bone. Medium kibbles, 5 lbs. 60 cts., 10 lbs. \$1, 25-lb. bag \$2, 50-lb. bag \$3.80, 100-lb. bag \$7.50.

KEN-L-MEAL. A meat cereal product. 5 lbs. 40 cts., 10 lbs. 75 cts., 25-lb. bag \$1.75, 50-lb. bag \$3.25, 100-lb. bag \$6.

KIT-E-RATION. A cat food made especially for cats, containing fresh cooked liver, lean meat, fresh whole milk, fish, Earlyne, selected cereals, and cod-liver oil. 1-lb. can 10 cts., 3 for 25 cts., case (48 1-lb. cans) \$3.90.

Swift's Pard Dog Food



A ready-to-serve ration made especially for dogs and cats of all breeds and ages. Composed of meats, meat by-products, wheat, barley, soy-bean meal, dry skim-milk, tomatoes, edible bone, sodium chloride and cod-liver oil. U. S. inspected and passed by Department of Agriculture. 1-lb. can 10 cts., 3 for 25 cts., case (48 cans) \$3.90.

Red Heart Dog Food

A meat-food product with cereals and vegetables for dogs and cats. Contains all the elements which are essential to the growth and health of animals. Furnished in three diets: Diet A with beef added, Diet B with fish added, Diet C with cheese added. Vary the menu by alternating the diets. 1-lb. can 10 cts., 3 for 25 cts., case (48 cans) \$3.90.

Thrivo Dog and Cat Food

A pure, wholesome food for dogs and cats. Contains meat, wheat-bran, soya-bean flour, crushed bone, carrots, and cod-liver oil. It is perfectly balanced, cooked and ready to feed. 1-lb. can 10 cts., 3 cans for 25 cts., case (48 cans) \$3.90.

Ideal Dog Food

Contains all the necessary ingredients to provide an appetizing, nutritious, and sustaining food for dogs, puppies, and cats. It is fully cooked and ready to serve. A product of Wilson & Co. 1-lb. can 10 cts., 3 cans for 25 cts., case (48 cans) \$3.90.

Hill's Dog Food

A scientifically prepared food for dogs and cats of all ages and breeds. Carries seal of approval by the American Animal Hospital Association. 1-lb. can 10 cts., 3 cans for 25 cts., case (48 cans) \$3.90.

Armour's Dog Food

A balanced ration suitable for year-round feeding of dogs, puppies and cats of all breeds and ages. Careful selection of ingredients assures purity and wholesomeness. It is ready to serve as it comes from the can. 1-lb. can 10 cts., 3 for 25 cts., case (48 cans) \$3.90.

Rival Brand Dog Food

A meat-food product with cooked barley, vegetable flour, wheat products, and rolled oats. Cooked and ready for use. Suitable for year-round feeding and for all breeds of dogs. 1-lb. can 10 cts., 3 for 25 cts., case (48 cans) \$3.90.

Gaines 90 Dog Food

A wholesome, tasty Dog Food designed to provide dog feeders with a fresh cooked meat at a very reasonable cost. It contains 90 per cent flesh meat, bone and marrow. The remainder is wheat middlings. It is highly concentrated and should be mixed with some other food for everyday feeding, but it can be fed alone occasionally. 1-lb. can 10 cts., doz. \$1.15, case (48 cans) \$4.50.

Sturdy Special Beef Ration

This food contains 97% lean beef, 1 1/2% wheat germ and 1 1/2% kelp. Recommended to be fed as a mixture with granular meal or baked foods. 1-lb. can 20 cts., doz. \$2.25, case (48 1-lb. cans) \$8.60; 2 1/4-lb. can 40 cts., doz. \$4.50, case (24 2 1/4-lb. cans) \$8.60.

Hill's Straight Packed Dog Food

A foundation food rich in those nutrients which promote the general well-being of dogs, cats and fur-bearing animals. It should be fed in combination with cereals, vegetables, biscuits and water. Contains horse meat, cooked bone, and 5 per cent ground whole wheat. 1-lb. can 15c., 2 for 25c., case (48 cans) \$5.25.

MILK-BONE . . . for Vitamins and Good Health!

Milk-Bone is no experiment or fad. It has been helping dog-owners solve their feeding problems for more than thirty years. In addition to clean beef meat, milk, cereals, and food minerals in proper proportions, Milk-



Bone provides in beneficial quantities the vitamins which are necessary for proper growth. These are Vitamins A, B, D, E, and F—each with its own contribution toward building resistance to disease and maintaining important bodily functions.

Dog Biscuit. For large breeds. 29-oz. carton 35 cts. each, 3 for \$1.

Puppy Biscuit. For full-grown dogs in the medium-size class, also puppies. 26-oz. carton 35 cts. each, 3 for \$1.

Junior Biscuit. For small breeds of dogs and puppies. 22-oz. carton 30 cts. each, 3 for 85 cts.

Pal Dog and Puppy Biscuit Food

A wholesome food for dogs of all breeds and ages. Handy to carry along when on a jaunt with your dog. Bone-shaped (small or large). Lb. 15 cts., 5 lbs. 70 cts., 10 lbs. \$1.35, 25 lbs. \$3.25.

"Old Trusty" All Terrier Food

A granulated food of even balance, carefully mixed, not medicated or sweetened. An ideal food for all breeds, particularly terriers and active dogs. May be fed dry or moistened with milk or soup. Vegetables may also be added. 5 lbs. 60 cts., 10 lbs. \$1, 25-lb. bag \$2.25, 50-lb. bag \$4, 100-lb. bag \$7.50.

Fleischmann's Yeast for Dogs

Supplies the needed vitamins B₁, G, and D. Essential for proper appetite and digestion. Promotes the growth of puppies, builds stronger bones, and prevents rickets. Helps grow beautiful glossy coats. Ten times as rich in Vitamin D as U. S. P. cod-liver oil. Simply add a teaspoonful of Fleischmann's Irradiated Dry Yeast to your dog's daily diet. 3½-oz. can 25 cts., 8-oz. can 50 cts., 1-lb. can 85 cts., 5-lb. can \$3.50, postpaid.

DOG BOOKS

Feeding the Dog.
Laws about Dogs.
How to Ship Dogs.
Whelping of Puppies.
Puppies and Their Care.
How to Sell Dogs.

Dog Shows and Rules.
House Breaking the Dog.
The Dog in the Show Ring.
Handling the Mating of Dogs.
Stud Dog's Care and Management.
Anatomy of the Dog.

The Handy Dog Booklet series listed above were written by Capt. Will Judy. They are scientifically written, easily understood and crowded with expert knowledge and helpful suggestions. Every dog owner should have some or all of these booklets. Each consists of 16 pages. 25 cts. each, 3 for 50 cts., 7 for \$1. Complete set of 12, \$1.50.

Training the Dog. By Will Judy. For all breeds and all training; 49 chapters on every conceivable subject; 5 excellent chapters alone on field and hunting work. A standard work on this most important subject. Generously illustrated. 160 pages, \$1.50.

Dog Encyclopedia. By Will Judy. The only complete reference work on dogs, giving the photograph, history, description and official standards of all breeds, and giving also full information about all of the other dog subjects, such as breeding, grooming, kenneling, exhibiting, importing, and the like. It answers every question about dogs. Several hundred illustrations. \$5.

Our Dogs. By C. E. Harbison. It tells how a dog should be trained, fed, and kept in condition, also describes the causes and symptoms of diseases as well as their remedies and treatment. Over 350 pages. Cloth, \$2.50.

Principles of Dog Breeding. It is so well and plainly written and so practical and helpful that it will be a guiding book on dog breeding for many years. The greatest book exclusively on this important subject. \$2.

Care of the Dog. By Will Judy. Answers every vital question the one-dog or pet-dog owner wants to know; 38 chapters of real help, packed with practical information. Many interesting illustrations. 96 pages. \$1.

How to Train Your Dog. By H. F. Owen. Written for the purpose of creating a closer bond between dog and master. Every dog owner who loves his dog should train him, and here is the best book for the purpose. The lessons and tricks are set forth in such simple language that even a child can grasp their meaning and apply the easy method of training revealed by the author. \$1.

IMPERIAL DOG FOODS

Imperial Dog Foods are made entirely from clean, fresh food-stuffs, and supply the essential food-elements that all dogs require. They eliminate the guess-work from feeding and keep your dog healthy and full of pep.

Imperial Milk and Meat Cereal. A complete diet in all respects.

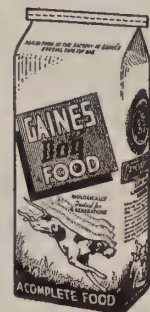
Contains all of the food factors recognized by experts and carefully processed and proportioned to meet the nutritional requirements of the average dog or pup. Ready to feed simply by adding water, milk, or gravy in equal parts. A quality product and the result of long and actual experience in the dog world. 5 lbs. 45 cts., 10 lbs. 85 cts., 25-lb. bag \$2.10, 50-lb. bag \$3.75, 100-lb. bag \$7.

Imperial Dog-Ration. (Kibbled.) Primarily a high-quality health-promoting, balanced ration dog food designed especially for kennel use to form a major part of the dog's diet. 5 lbs. 60 cts., 10 lbs. \$1, 25-lb. bag \$2.45, 50-lb. bag \$4.35.

Imperial Kibbled Meat-Ration. A baked food that eliminates your worries about correct diet—a food composed of about 35 per cent cooked meat and fish with cereals, vegetables, grains, and minerals. Absolutely nothing to be added but a little water to mix into a tasty, nourishing mash that your dogs and puppies will relish and thrive on. 5 lbs. 60 cts., 10 lbs. \$1, 25-lb. bag \$2.50, 50-lb. bag \$4.50.

Imperial Dominoes. The ideal Biscuits for small breeds. Small, tasty, and highly nutritious, they are just the right size for the puppies and do not have to be broken or soaked up. 5 lbs. 60 cts., 10 lbs. \$1, 25-lb. bag \$2.50, 50-lb. bag \$4.75.

Gaines Meat and Milk Meal



A complete, balanced food for all ages and breeds of dogs. Particularly successful as a puppy ration. Composed of beef, milk, vegetables, cereals, minerals—and also has a reservoir of Vitamins A, B, D, E and G. Not only gives complete nourishment, but also provides protection against the deficiency disorders, such as rickets, running fits, black tongue and so on. Cooked—and ready to serve. Chosen by the U. S. Antarctic Expedition.

5 lbs.	\$0 45	50 lbs.	\$3 35
10 lbs.	85	100 lbs.	6 25
25 lbs.	1 90	500 lbs.	28 75

Gaines Krunchon

Made of exactly the same ingredients as Gaines Meal, but hardened into convenient sized pellets that unite all the advantages of a hard food with the proven nutritive qualities of the Meal.

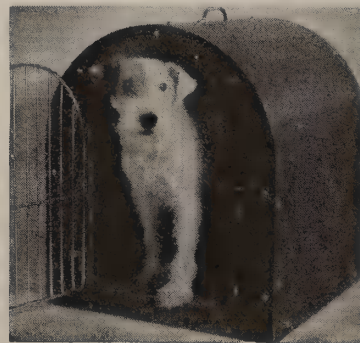
5 lbs.	\$0 50	50 lbs.	\$3 60
10 lbs.	90	100 lbs.	6 75
25 lbs.	2 00		

Myles Standish Portable Dog Kennel

Made of genuine Masonite Presdwood. It is weather- and vermin-proof, well ventilated, light, durable, sanitary, and easy to clean. Use it in the house or yard. Ideal for shipping dogs or exhibiting at dog shows and field trials. Walnut finish but you may paint it any desired color.

— Dimensions —			
Width	Height	Length	Each
12 in.	14½ in.	18 in.	\$5 95
16 in.	19½ in.	24 in.	7 95
21 in.	23½ in.	28 in.	9 95
24 in.	30 in.	36 in.	15 95

Larger sizes available on order



Spratt's Dog Remedies

Tablets for Constipation.....	Pkg. \$0 60
Sulfur Tablets. For heated blood, etc.....	60
Cough Tablets. Generally effect a quick cure.....	60
Astringent Tablets for Dogs. To relieve diarrhea.....	60
Special Tablets. A diuretic and stimulant.....	1 00
Ear Canker Ointment. For both internal and external forms of this disease.....	75
Eye Lotion Tablets. A safe and efficient remedy.....	60
Flea and Insect Powder. For dogs, cats and other animals.....	30
Mange Liquid.....	75
Purgative Tablets. Perfectly safe and effective.....	60
Tonic and Condition Tablets. To build up after sickness.....	60
Worm Capsules for Puppies.....	60
Worm Capsules for Dogs.....	60
Dry Cleaning Powder.....	30
Dog Soap (White). For fleas, lice, etc.....	Cake 25 cts.
Liquid Shampoo. Also recommended for use by humans.....	35
Chalk Block. For dry cleaning dogs and cats.....	25

Sergeant's DOG MEDICINES

Special Medicine. For reduction of fever in pups and dogs.....	Pkg. \$1 20
Mange Medicine. For treating Sarcocytic Mange.....	65
Condition Pills. A tonic and alternative for pups and dogs.....	60
Sure-Shot Liquid. For pups and older dogs. For owners who prefer a liquid vermifuge for roundworms.....	60
Expectorant Medicine. For coughs due to colds in pups and dogs.....	60
Puppy Capsules. For round- and hookworms in pups and dogs weighing less than 10 pounds.....	60
Eye-Wash. For treating eye trouble in pups and dogs.....	60
Sure-Shot Capsules. For large roundworms, and hookworms in pups and dogs weighing over 10 pounds.....	60
Tapeworm Medicine. For tapeworms in pups and dogs.....	60
Arsenic and Iron Pills. A tonic used alternately with Sergeant's Condition Pills.....	60
Canker Wash. For treating internal and external ear canker.....	60
Mouth Wash. For treating sore gums.....	60
Pepsin and Aromatic Tablets. Relieves colic in pups and dogs due to improper food.....	60
Intestinal Astringent. Checks too-frequent bowel action in cases of diarrhea.....	60
Diuretic Pills. Stimulates urinary action. Useful in old dogs.....	60
Vitapets. A food supplement for dogs and puppies. Supplies Vitamins A, B, D, and G. Pkg. (23 capsules)	60

SERGEANT'S DOG MEDICINES, con't

Laxative Tablets. For treating constipation in pups and dogs.....	Pkg. \$0 60
Nerve Sedative Medicine. For relief of excitement and nervous irritability.....	60
Carbolic Tar Soap. A splendid all-purpose soap.....	Cake 25 cts.
Skip-Flea Soap. A wonderful bath soap. Will kill fleas, lice, and certain other vermin.....	Cake 25 cts.
Skip-Flea Powder. For fleas and lice on dogs and cats. 2-oz. pkg.....	35
Pine Oil Disinfectant. For general use. 10 ozs. 60 cts., 1 gal. \$3.	
Sergeant's Dog Book Free. Ask for it.	

Q-W Dog Remedies

Condition Powder. A general conditioner.....	Pkg. \$1 00
Cough Mixture. Often gives immediate relief.....	65
Sedative Tablets. For treatment of fits.....	95
Tapeworm Mixture. Will not injure most delicate dog.....	1 00
Worm Capsules. For large roundworms.....	65
Worm Mixture. Quick, sure and safe.....	65
Flea Powder. Kills fleas.....	35
Sarcocytic Mange Lotion. Dressing for mange and itch.....	75
Dog Soap. Has a pure, clean, pleasant odor.....	Cake 25 cts.
Dog Shampoo. A liquid soap that will actually kill fleas.....	35
Constipation Pills. A quick, safe laxative.....	65
Cod-Liver Oil with Calcium Phosphate. Rich in vitamins A and D.....	95

Dr. Daniel's Medicines for Dogs and Cats

H. B. O. Liquid for hair-balls in cats.....	Pkg. \$0 65
V. M. Capsules. Vitamins for dogs and cats.....	50
Worm Specials	
Liquid Worm Drops. For cats and toy dogs.....	50
Worm Drop Capsules. For cats, toy and small pups.....	65
Puppy Vermifuge Capsules. For worms in pups.....	65
Worm Expeller Capsules. For large dogs.....	65
Loose Catnip. All leaves and blossoms.....	15
Catnip Ball. Exerciser for cat.....	Each 15 cts.
Acobal Wafers. For distemper—colds in cats and puppies.....	50
Condition Tablets. Restorative for dogs.....	65
Dervide Tablets. For fits and convulsions.....	50
Dog and Flea Soap.....	Cake 25 cts.
Katonic. A great tonic for cat or kitten.....	25
Laxative Tablets. For dogs or cats.....	50
Dermite. For itching skin, eczema and sarcocytic mange.....	1 00

Dr. LeGear's Dog Prescriptions

Round- and Hookworm Capsules for Small Dogs. 15 capsules 50 cts.	
Round- and Hookworm Capsules for Medium-Large Dogs. 10 capsules 50 cts.	
Tapeworm Tablets. 15 tablets 50 cts.	
Mange Prescription (Sarcocytic). 6 oz. 50c.	
Tonic Tablets. Stimulant to appetite. 25 tablets 50 cts.	
Kennel Disinfectant. 6 ozs. 50 cts.	
Flea and Lice Powder. 1½ ozs. 25 cts.	
Flea and Shampoo Soap. 3¾ ozs. 25 cts.	
Laxative Tablets. 30 tablets 50 cts.	
Pepsin Bismuth Tablets. Aid to digestion. 25 tablets 50 cts.	
Nerve Sedative Tablets. 20 tablets \$1.	

Glover's Imperial Dog Medicines

Imperial Capsules. For round and hookworms. Puppy size, pkg. (8 capsules) 25 cts., pkg. (24 capsules) 60 cts. Dog size, pkg. (6 capsules) 25 cts., pkg. (18 capsules) 60 cts.	
Roundworm Vermifuge. For puppies, dogs, foxes, and cats.....	Pkg. \$0 60
Roundworm Capsules. For puppies, dogs and foxes.....	60
Tapeworm Capsules. For puppies, dogs, foxes, and cats.....	60
Laxative Pills. For sluggish bowels and acute constipation.....	60
Compound Tablets. Act upon the kidneys and intestines.....	60
Nerve Sedative. For fits and convulsions.....	60
Mange Medicine for Sarcocytic Mange and chronic eczema of dogs.....	75
Expectorant Mixture. For coughs due to colds.....	60
Canker Medicine. For canker of the ear in dogs and cats.....	60
Intestinal Astringent. For non-infectious diarrhea.....	60
Tonic Pills. Tonic and appetizer.....	60
Eye Lotion and Powder. For minor injuries and irritations in the eyes.....	60
Ointment. For sarcocytic mange and minor skin irritations.....	60
Double Action Flea Powder. For dogs and cats.....	25
Kennel and Flea Soap. Kills fleas and lice.....	Cake 25 cts.
Medicated Soap. A cleansing bath soap for house dogs. Cake 30 cts.	

Free Dog Book for Distribution

Rex Hunters Tasteless Dog Powders. Provide blood-tonic elements and a reconstructive for dogs of all breeds, any age. Pkt. of 8 capsules 25 cts., 40 for \$1.	
Karswood Dog Condition Powders. Suitable for all breeds of dogs at all ages. Keeps dogs in splendid condition. Give a dose once every week. Pkt. of 12 powders, 35 cts.	
Karswood Worm Powders. For puppies and medium- and large-sized dogs. Pkt. of 6 powders, 50 cts.	
One Spot Flea Killer. Kills fleas and lice on dogs and cats. Safe and effective. 1-oz. tin 25 cts., 3-oz. tin 50 cts.	
Trix Repellent. Repels dogs when females are in season. 1-oz. bottle 50 cts.	



Pulvex. One application of Pulvex—the odorless and non-poisonous Flea Powder—will kill every louse, flea, tick, or mite on any animal or bird. It will also prevent re-infestation of fleas for many days. Pulvex is safe to use on dogs, cats, or birds, and is guaranteed to satisfy. 2-oz. pkg. 50 cts.; 12-oz. pkg. \$1.25, postpaid.

Pulvex 6-Use Dog Soap. Cleans, tones, stimulates and oils the skin and coat, kills fleas and lice, and deodorizes all in one operation. Large cake 50 cts.

Pulvex Flea Soap. Cleans thoroughly, deodorizes and kills fleas. Cake 25 cts.

Pulvex Dry Cleaner. An odorless, harmless powder that cleans your dog or cat without water. Kills fleas and lice, removes doggy odors. 4-oz. tin 50 cts.

Pulvex Combination Treatment Worm Capsules. The Pulvex package contains capsules to give your dog a complete treatment for round, hook, and tapeworms. For puppies and dogs weighing less than 10 pounds, pkg. (18 capsules) 50 cts., pkg. (36 capsules) 75 cts.; for dogs weighing 10 pounds or over, pkg. (12 capsules) 50 cts., pkg. (24 capsules) 75 cts.

Quadine. Used by thousands of kennels and fanciers as an aid in treatment and grooming of the dog's skin and coat. Controls dandruff, fleas, flies, mange. 2-oz. bottle 60 cts., 4-oz. \$1, 12-oz. \$2, ½ gal. \$4.75, gal. \$7.50.

Quadine Jr. Atomizer for easy application and 2-oz. bottle of **Quadine**. \$1.50.

Allen's Liquid Extract of Garlic. Peps up your dog's appetite. Odorless. Dogs love it. 4-oz. bottle 75 cts., 12-oz. \$1.75, gal. \$12.

Pulvex Pine Oil Disinfectant. For use in the home and kennel. Has a pleasant odor. 8-oz. tin 50 cts., 1-gal. can \$2.50.

Delcreo. For treating fever in pups and dogs. 4-oz. pkg. \$1.50, 16-oz. pkg. \$5.

Gaines Formula 107A. A product that has almost exactly the same chemical analysis—and gives the very same feeding results—as natural milk. A complete food for orphan puppies. A valuable supplement for nursing mothers, weaning puppies, and also run-down dogs. ½-lb. can 75 cts.

Ken-L-Lac. A liquid pet food recommended for weaning puppies and for supplemental feeding of young, adult, aged, and convalescent dogs. Beneficial for mothers prior to and following whelping. 14½-oz. can 15 cts., doz. \$1.50, case (24 cans) \$2.80.

Ween. Save valuable puppies with Ween. Original liquid food for orphan puppies, newly weaned, and heavy litters. Easily digested, high nutritive value, high vitamin content. Good conditioner for in-whelp and nursing bitches, and stud dogs. Also valuable for cats and kittens. 1-lb. can 20 cts., 2 for 35 cts., doz. \$2, case (48 1-lb. cans) \$7.60.

Itch-A-Way. Used for itching and scratching, eczema, skin irritations and sarcoptic mange. An ointment. ¾-oz. tin 15 cts., 3-oz. tin 50 cts.

Bee Brand Shampoo. Kills fleas on dogs and cats. Pkg. 35 cts.

Bee Brand Flea Powder. Safe and non-irritating. Pkg. 35 cts.

Show Coat. Cleansing pads treated with a soothing lotion that is refreshing and deodorizing. Jar (8 pads 8 in. by 9 in.) 75 cts.

Hilo Dip. Kills fleas and lice which are often the cause of most skin troubles. 1-oz. bottle 25 cts., 3-oz. bottle 50 cts.

Hilo Ointment. Gives quick relief and hastens the healing of sores. 1-oz. jar 25 cts., 3-oz. jar 50 cts.

Best in Show Conditioners. Helps correct fever, loss of appetite, underweight, constipation, etc. Pkg. (8 capsules) 25 cts.

Cupid Chaser. Keeps dogs from females during mating season. Bottle \$1.

Dog-Tex. Removes liquid dog and cat stains from carpets. Ends odor instantly. 8-oz. bottle 85 cts.

Chaperone. Keeps dogs off rugs and furniture. Harmless and odorless. Bottle \$1.

Pupfume. Helps protect furniture, rugs, cars and clothing from doggy odors, and gives the dog a clean woody scent. 2-oz. bottle 50 cts.

Brown's Supercedar Kennel Bedding

Made from genuine *Juniperus virginiana*, the red heart of which contains the fragrant oil of cedar. It is scientifically air-dried to retain its full oil-content. The pungent aroma, so pleasing to you and your dog, actually drives fleas and other vermin away. It not only provides a velvety cushion for a dog, but imparts a gloss to his coat, keeps his hair live, clean, and oily, and keeps the kennel pleasant and wholesome. A pillow filled with it makes an ideal bed for cats and other animal pets. 5-lb. bag 45 cts., 25-lb. bag \$1.50, 50-lb. bag \$2.65, 100 lbs. \$4.50.

Framingham Pure Cedar Bedding

Prepared from dry, sound wood. Provides a wholesome, clean and agreeable preventive of disease. Its use will keep kennels and coops clean and sweet. 25-lb. bale \$2.25, 50-lb. bale \$3.50, 100-lb. bale \$6.50.

Fish Foods and Supplies

Burnett's Natural Fish Food. Pkg. 10 cts.

Burnett's Dried Daphnien. Pkg. 10 cts.

Burnett's Shrimp Fish Food. Pkg. 10 cts.

Burnett's Tropical Fish Food. Pkg. 25 cts.

Burnett's Turtle Food. Pkg. 25 cts.

Justrite Natural Fish Food. Can 10 cts.

Justrite Tropical Fish Food. Can 10 cts.

Justrite Imported Pure Shrimp. Can 10c.

Spratt's Wafer Fish Food. Carton 10 cts.

Spratt's Tropical Fish Food. 10 cts. each.

Spratt's Natural Fish Food. Tin 10 cts.

Spratt's Aquarium Cement. 1-lb. tin 40c.

Justrite Aquarium Gravel. 28-oz. pkg. 10 cts.

Cat Foods and Medicines

Spratt's Tablets for Constipation. Pkg. 60 cts.

Spratt's Purgative Tablets. Pkg. 60 cts.

Spratt's Special Tablets. A diuretic and stimulant. Pkg. \$1.

Spratt's Tonic and Condition Tablets. Pkg. 60 cts.

Spratt's Food with Fish and Milk. A complete food for cats. 24-oz. pkg. 30 cts.

Kit-E-Ration. A balanced ration ready to serve. 1-lb. can 10 cts., 3 for 25 cts.

Rival Cat Food. Specially prepared food for cats. 8½-oz. can 10 cts., 3 for 25 cts.

Bennett's Tiny Bits. A food for cats. Pkg. 20 cts.

Catnip Mouse. Makes kittens playful. Pkg. 10 cts.

Cat Culture. A complete treatise on the care of cats. 15 cts.

Bird Foods and Remedies



Spratt's Egg-Flake and Fruit Canary Mixture. 15-oz. pkg. 25 cts.

Spratt's Cod-Liver Oil Cage-Bird and Nestling Food. For feeding young birds and old birds in the moulting season. A tonic and flesh- and bone-maker. Unequaled as an aid to

feather-growth. 4-oz. pkg. 15 cts.

Spratt's Song Restorer. Strengthens the voice. 4-oz. pkg. 25 cts.

Spratt's Sing-Song. For health and song. Pkg. 10 cts.

Spratt's Tonic for Birds. 1-oz. bottle 15c.

Spratt's Parrot Mixture. Combination of selected seeds, etc. 9-oz. pkg. 20 cts.

Spratt's Pollicrackers. Specially prepared biscuits for parrots. 12-oz. pkg. 20 cts.

Burnett's Pep. Keeps cage-birds in constant song, improves their plumage, and prevents disease. Pkg. 10 cts.

Silver Brand Bird Gravel. 30-oz. pkg. 15c.

Chamberlain's Bird Gravel. 24-oz. pkg. 15 cts.

Chamberlain's Perfect Bird Food. Canary seed mixture with vegetable and egg flakes. 11-oz. can 25 cts., 55-oz. can \$1.

Burnett's Bird Nesting. Pkg. 10 cts.

Burnett's Canary Louse Powder. 1-oz. pkg. 25 cts.

Burnett's Unexcelled Bird Food. A song restorer. 3½-oz. pkg. 25 cts.

Burnett's Bird-Wash. For use on canary birds and parrots. Non-poisonous. 3-oz. pkg. 25 cts.

Burnett's Bird Tonic. For loss of song, weakness, or moulting, asthma or hard breathing and colds. 3-oz. pkg. 25 cts.

Burnett's Polly Nut Mixture. A combination of seeds, nuts, and grains for parrots. 9-oz. pkg. 20 cts.

Magic Song Restorer and General Health Food. For all seed-eating birds. 6-oz. pkg. 25 cts.

Recleaned Moroccan Canary Seed, in bulk. Keeps canaries in full song. Lb. 18 cts., 6 lbs. for \$1.

Large Japanese Bird Rape Seed, in bulk. Lb. 18 cts., 6 lbs. for \$1.

Scott's Canary Seed Mixture, in bulk. Best recleaned Canary and Japanese Rape Seed. Lb. 18 cts., 6 lbs. for \$1.

GENERAL INFORMATION and SUGGESTIONS

FREE DELIVERY

At prices named in this Catalogue, on Vegetable Seeds, Flower Seeds, Grass Seeds, and Bulbs, *We Deliver Free* anywhere in the United States.

On other goods where the order amounts to \$2 or more (except where priced otherwise), *We Deliver Free* in Pennsylvania, Ohio, and West Virginia. Customer pays transportation charges on orders less than \$2.

Free deliveries are made at our option by truck, or by mail, express, or freight to your nearest post office, express office, or freight station.

PARCEL POST SHIPMENTS

Where the Catalogue provides that postage be added to the remittance, include for postage as follows:

Less than 1-lb. package. \$0	08	20-lb. package.	\$0	30
1-lb. package.	10	25-lb. package.		37
2-lb. package.	11	50-lb. package.		65
3-lb. package.	12	Less than 1-pt. package. .		08
4-lb. package.	13	1-pt. package.		10
5-lb. package.	14	1-qt. package.		15
10-lb. package.	19	1/2-gal. package.		20
15-lb. package.	25	1-gal. package.		25

C. O. D.

We will accept orders for shipment C.O.D. except on shrubs, roses, cabbage and strawberry plants, or other perishable goods.

ORDER EARLY

Our rush season comes in the months of April and May. To relieve congestion and reduce to a minimum the delay in filling orders, we solicit the coöperation of our customers by placing their orders early and taking delivery before the rush begins.

PRICE CHANGES

Prices are subject to change without notice. Should the price of any commodity be reduced, the difference in price will be refunded, or in case of advance, the customer will be notified before shipping.

QUANTITY RATES

Half-bushels will be furnished at bushel rates; half-pecks at the peck rate; and half-pounds at the pound rate.

TERMS

Our terms are cash and prices are net, with no discounts. To persons and firms with established credit we are glad to extend the convenience of a charge account. Usual credit references are required.

MAIL AND TELEPHONE ORDERS

We are organized to give mail and telephone orders the same personal attention as orders placed in our store. If it is not convenient to come to the store we will appreciate your order either by mail or telephone.

REMITTANCES

These should be sent by money order, registered letter, bank draft; or check. Amounts less than \$1 may be sent in postage stamps.

NON-WARRANTY

We give no warranty, expressed or implied, as to description, quality, productiveness, or any other matter of any seeds, bulbs, or plants we sell, and will not be responsible for the crop. No responsible seedsman gives any warranty. If the purchaser does not accept the seeds on these terms, they are to be returned at once.

The I. W. SCOTT COMPANY

500 Liberty Avenue • 113 Diamond Street • PITTSBURGH, PA.

INDEX

	Page		Page		Page		Page
Abelia.	46	Balsam Apple.	33	Breast Yokes.	104	Copper Oxide.	63
Acroclonium.	24	Balsam Pear.	33	Bridal Wreath.	47	Copper Sulphate.	61
Adam's Needle.	49	Bannock Dog Foods.	137	Broccoli.	4	Coral Bells.	48
Adco.	58	Barb Wire.	88	Brooder Extras.	128	Coreopsis.	s27,28,p48
African Daisy.	30	Barley.	53	Brooders.	119-122	Coriander.	13
Ageratum.	24	Barn Equipment.	113	Brooms, Stable.	114	Cornflower.	s28,p48
Agri Phos.	52	Barnes Emulsion.	136	Brushes.	111	Corn, Ensilage.	54
Agrico.	56,58	Basil, Sweet.	13	Buckwheat.	53	Corn, Field.	54
Alfalfa Seed.	52	Baskets.	83	Buddleia.	46	Corn Graders.	99
All-Crop Harvesters.	97	Battery Brooders.	121,122	Bull Rings.	114	Corn Hooks.	104
Allis-Chalmers Tractor.	91	Beans.	5,6	Bull Staffs.	114	Corn Knives.	104
Almond, Flowering.	46	Beauty Bush.	46	Burning Bush.	46	Corn Planters.	99
Althea.	46,48	Bee Supplies.	116,117	Bush Hooks.	70	Corn, Pop.	11
Aluminum Sulphate.	58	Beet.	7	Butter Bowls.	111	Corn Salad.	11
Alyssum.	24	Begonia.	s26,b38	Butterfly Flower.	35	Corn Shellers.	108,127
Amaranthus.	25	Bellflower.	48	Cabbage.	8	Corn, Sweet.	10,11
Amber Cane.	53	Bellis.	s26,p48	Caladium.	38	Cornus.	46
Ammo-Phos.	58	Bent Grass.	3	Calcium Arsenate.	60	Corrosive Sublimate.	63
Ampelopsis.	45	Berry Baskets.	83	Calcium Cyanide.	61,62	Cosmos.	29
Amygdalus.	46	Bichloride of Mercury.	63	Calendula.	27	Cotoneaster.	46
Anemone.	38	Bignonia.	45	Calf Feeders.	115	Cottonseed Meal.	57
Anise.	13	Binder Twine.	106	Calf Weaners.	114	Cow Hobbles.	115
Ant Killers.	62	Binders, Grain.	105	California Poppy.	30	Cow Manure.	59
Antirrhinum.	25,3d Cov.	Bird Supplies.	142	California Privet.	45	Cow Medicines.	115
Aquilegia.	s25,p48	Bittersweet.	45	Calliopsis.	27	Cow Ties.	114
Arabis.	s25,p48	B-KjDisinfectant.	115,136	Calves' Cordial.	115	Cowpeas.	53
Arbutus.	46	Blackberries.	51	Calycanthus.	46	Crates, Fruit and Vegetable.	83
Arctotis.	25	Black-eyed Susan.	36	Campanula.	s27,p48	Cream Separators.	110
Aristolochia.	45	Black-Leaf 40.	60,136	Canada Field Peas.	53	Cress.	7
Arneria.	s25,p48	Blanket Flower.	s30,p48	Canary Bird Vine.	27	Crow Repellent.	64
Aronia.	46	Bleeding-Heart.	48	Canary Seed.	142	Cucumber.	12
Arsenate of Lead.	60	Blue Bells.	49	Candytuft.	s27,p48	Cultivators, Garden.	68,71,100
Artichoke.	4	Blue Grass.	3	Cannas.	s27,b39	Cultivators, Horse.	95,101,103
Asbestos Torches.	80	Blue Lace Flower.	29	Cantaloupe.	15	Cultivators, Power.	102,103
Asparagus.	4	Blue Vitriol.	61	Canterbury Bells.	s27,p48	Cup-and-Saucer.	s27,p48
Asters.	26,3d Cov.	Boilers, Dairy.	113	Caponizers.	130	Cup-and-Saucer Vine.	28
Atlacide.	62	Bolens Tractors.	103	Caraway.	13	Cuprocide.	61
Avens.	s30,p48	Bone Cutters.	127	Carbols.	133	Cupro-K.	63
Avicol.	134	Bone Meal.	57	Carbolineum.	136	Currents.	51
Axes.	70	Books.	37,133,140	Carbon Disulphide.	62	Cut-and-Come-Again.	37
Azaleas.	46	Borage.	13	Carborundum Files.	107	Cyanamid.	57
Baby's Breath.	s31,p48	Bordeaux Mixture.	61	Cardinal Climber.	21	Cyanogas.	61,62
Bachelor's Button.	28	Borecole.	13	Cardoon.	18	Cydonia.	46
Bag Balm.	115	Borer Repellent.	64	Carnations.	s27,p48	Cynoglossum.	29
Bale Ties.	105	Boston Ivy.	45			Cypress Vine.	28
Balloon Flower.	s34,p49	Bottle Cases.	111				
Balloon Vine.	26	Bottle Fillers and Cap-pers.	113				
Balm.	13						
Balsam.	26						

Daffodil, Peruvian.	38
Dahlias.	s29,b41
Dairy Pails.	111
Daisy, African.	30
Daisy, English.	s26,p48
Daisy, Painted.	s34,p49
Daisy, Persian.	49
Daisy, Shasta.	s28,p49
Dandelion.	12
Dandelion Killer.	62
Daphne.	48
Dehorner.	115
Delphinium.	s29,p48
Deutzia.	46
Dianthus.	s29,36,p48
Dibbles.	68
Dicentra.	48
Didiscus.	29
Digitalis.	s29,p48
Dill.	13
Dimorphotheca.	30
Disinfectants.	115,133,136,142
Dog Foods and Remedies.	137-142
Dogwood.	46
Dogzoff.	64
Dolichos.	30
Don Sung.	134
Doubletrees.	104
Driconure.	59
Dried Blood.	57
Dusters.	80,81
Dusty Miller.	28
Dutchman's Pipe Vine.	45
D.X. Spray.	66
Earth Augers.	81,90
Edgers.	69,73,76
Egg Basket.	128
Egg Caddlers.	130
Egg Carriers.	129
Egg Preserver.	135
Egg Scales.	130
Egg Tester.	128
Eggplant.	11
Elaeagnus.	46
Electric Fence Controller.	89
Elephants-Ear.	38

INDEX, continued

Page	Page	Page	Page	Page	Page
Endive.....11	Honeysuckle, Shrub.....46	Mercuric Chloride.....63	Physalis.....34	Roof Cement.....83	Summer Hyacinth.....38
Ensilage Cutters.....104	Honeysuckle Vine.....45	Mertensia.....49	Picking Bags.....83	Roof Saddles.....127	Sun Rose.....31
Erosionet.....73	Horehound.....13	Mesembryanthemum.....33	Picks.....70	Roofing.....83	Superphosphate.....31
Eschscholtzia.....30	Hormodin.....65	Mexican Firebush.....32	Pigeon Nests.....126	Root Cutters.....108,127	Swan River Everlasting.....35
Ethylene Dichloride.....64	Horse Medicines.....115	Mexican Sunflower.....36	Pikgards.....128	Root Washers.....85	Swede Turnip.....23
Euonymus.....46	Horse-Radish Roots.....13	Michaelmas Daisy.....26	Pin-Cushion Flower.....s35,p49	Rootone.....65	Sweepers, Lawn.....71
Euphorbia.....30	Hose, Garden and Spray.....72	Mignonette.....33	Pinks.....s29,p48	Rope.....106	Sweet Marjoram.....13
Everlasting.....31	Hose Reels.....72	Milk Bottles.....111	Plant Boxes.....84	Rose of Sharon.....46	Sweet Pea.....32,36
Facing Forms.....83	Hotbed Sash.....85	Milk Bottle Baskets.....111	Plant Supports.....67	Roses.....42-44	Sweet Shrub.....46
Farmorgem.....63	Hotbed Supplies.....84,85	Milk Bottle Caps.....114	Plant Ties.....67	Rotenone Dust.....60,65	Sweet Sultan.....28
Feed Cutters.....104	Hothouse.....84	Milk Cans.....111	Plant Tubs.....67	Rough-stalked Meadow Grass.....3	Sweet William.....s36,p48
Feeds, Poultry.....131,132	Hotkaps.....84	Milk Cooler.....113	Plantabbs.....58	Rubber Bands.....85	Swiss Chard.....7
Fence.....86-89	Humogerm.....63	Milk Fever Outfit.....114	Planters, Corn.....99	Rue.....13	Symphoricarpos.....46,47
Fennel.....13	Humulus.....31	Milk Filter Discs.....111	Platycodon.....s34,p49	Rutabaga.....23	Syringa.....47
Fertilizers.....1,56-59	Humus.....58	Milk Scales.....114	Plows.....92,93	Rye.....53	Tages.....32,33
Fertilizer Spreaders.....59,90,96,100	Hunnemannia.....31	Milking Tubes.....114	Poa trivialis.....3	Rye Grass.....3,53	Tamarix.....47
Fescue Grasses.....3	Hyacinth Bean.....30	Millet.....53	Polygonum.....45	Saddle Soap.....115	Tansy.....13
Feverfew.....33	Hyacinthus.....38	Mills, Grinding.....105,127	Pond Plants.....39	Salfron.....13	Tarragon.....13
Finishing Batteries.....122	Hydrangea.....46	Milorgonite.....58	Poppy.....s35,p49	Sage.....13,35	Teat Instruments.....114
Fish Foods.....142	Hydrofluoric Acid.....85	Minulus.....33	Portulaca.....34,3d Cov.	Sal-Vet.....115	Tergen.....63
Flags.....48	Hygrometers.....128	Mirabilis.....30	Post-Hole Diggers.....90	Salpiglossis.....35	Thermometers.....85,114,115,128
Flax.....s32,p49	Iberis.....s27,p48	Mock Orange.....47	Posts, Fence.....88	Salsify.....20	Thrift.....s25,p48
Floss Flower.....24	Ilex.....47	Mole Exterminators.....62	Pot Labels.....67	Salvia.....85	Thunbergia.....36
Flower Bed Border.....87	Incubator Extras.....128	Momordica.....33	Pot Marigold.....27	Satin Flower.....30	Thyme.....13
Flower Boxes.....67	Incubators.....119	Mombretia.....38	Potash.....57	Sausage Seasoning.....115	Tickseed.....s27,p48
Flower Holder.....67	Indian Currant.....46	Moonflower.....31	Potato Diggers.....97	Savory, Summer.....13	Tigrida.....38
Flower Pots.....67,84	Inoculants, Seed.....63	Morning-Glory.....31,4th Cov.	Potato Graders.....97	Saws.....82,90,109	Time Switch.....129
Flower Seed Mixtures.....37	Insecticides.....60-66	Moss.....67	Potato Hooks.....68	Scabiosa.....s35,p49	Timothy Seed.....3,52
Flower Shears.....67	Ipomoea.....31,4th Cov.	Moss Pink.....49	Potato Planter.....97	Scalecide.....66	Tithonia.....36
Fly Spray.....115	Irises.....48	Mountain Pink.....49	Potato Scoop.....70	Scales.....114,118,130	Toadflax.....32
Forget-me-not.....s33,p49	Ismene calathina.....38	Mourning Bride.....s35,p49	Potatoes.....55	Scarlet Trumpet Vine.....45	Tobacco.....21
Forks.....68	Japan Clover.....53	Mouse Killers.....62	Poultry Feeders.....123-126	Schizanthus.....35	Tobacco Dust.....64,136
Formaldehyde.....63	Japan Quince.....46	Mowers, Field.....105	Poultry Feeds.....131,132	Scotch Soot.....57	Tobacco Stems.....64
Forsythia.....46	Japanese Barberry.....45	Mowers, Lawn.....71,74-76,102	Poultry Fountain Heaters.....126	Scrapers, Drag.....94	Tobacco, Sweet-scented.....33
Four o'Clock.....30	Japanese Beetle Trap.....73	Mowrah Meal.....64	Poultry House Heater.....123	Scrapers, Poultry House.....128	Tomatoes.....22,23
Foxglove.....s29,p48	Japanese Hop.....31	Mushrooms.....21	Poultry Killers.....130	Scythe Stones.....107	Tractors.....91,102,103
Fruit Packages.....83	Job's Tears.....31		Poultry Litter.....133	Scythes.....70	Transplantone.....58
Fruit Pickers.....83	Joseph's Coat.....25			Sea Pink.....25	Tree Bands.....64
Fruit Presses.....108	Kale.....13			Sedum.....49	Tree Paint.....64
Fruit Trees.....50	Kennel Bedding.....142			Seed Cleaner.....109	Tree Scraper.....82
Fungicides.....60-66	Kennels.....140			Seed Flats.....84	Tree Surgery Tools.....81
Fungitrogen.....61	Kerria.....47			Seeders.....90,100	Tree Tanglefoot.....64
Gaillardia.....s30,p48	Kochia.....32			Selocine.....61	Tree Wrap.....82
Gaines' Dog Food.....140	Kohlrabi.....13			Shearing Machines.....112	Trees, Fruit.....50
Garland Flower.....48	Kolkwitzia.....46			Shears, Flower.....67	Trees, Shade.....47
Gates.....87,89	Kow Kare.....115			Shears, Grass.....69	Trellis Wire.....87
Geranium.....30	Kudzu Vine.....45			Shears, Hedge.....69	Tri-Gen.....61
Geum.....s30,p48	Labels.....67			Shears, Pruning.....81,82	Tritoma.....49
Gillflower.....35	Ladders.....83			Sheep Manure.....59	Tropaeolum.....27
Gladiolus.....40,4th Cov.	Lady's Slipper.....26			Sheep Shears.....69,112	Trowels, Garden.....68
Glass.....85	Lantana.....32			Shovel Plows.....101	Trumpet Creeper.....45
Glass Substitutes.....129	Larkspur.....29,32			Shovels.....70	Tuberose.....38
Glazing Points.....85	Lathyrus.....13			Shrubs, Flowering.....46,47	Tufted Pansies.....49
Glazing Putty.....85	Lavender.....32			Sieves.....70	Tulip Poppy.....31
Globe Amaranth.....30	Lawn Burner.....85			Silver Lace Vine.....45	Turnip.....23
Gloves.....80	Lawn Covering.....73			Silverberry.....46	Turnip-rooted Celery.....9
Gloxinia.....38	Lawn Mower Sharpener.....107			Singletrees.....104	Twist Ems.....67
Godetia.....30	Lawn Mowers, Hand.....76			Smoked Salt.....115	Vegetable Tye.....85
Golden Bell.....46	Lawn Mowers, Power.....71,74,75,102			Snapdragon.....25,3d Cov.	Vegetable Washers.....85
Golden Feather.....34	Lawn Rollers.....71			Snaths.....70	Ventilators.....122
Golden Moss.....49	Lawn Seeds.....1-3			Snow Fence.....87	Verberna.....36
Gomphrena.....30	Lawn Spikes.....71,73			Snow Plows.....102	Vermol.....64
Gooseberries.....51	Lawn Sweepers.....71			Snow-in-Summer.....s28,p48	Veronica.....s36,p49
Gourds.....30	Lawn Tamps.....73			Snow-on-the-Mountain.....30	Vetch.....53
Grafting Tool.....82	Lawn Trimmers.....69,73,76			Snowball.....47	Viburnum.....47
Grafting Wax.....64	Laying Batteries.....122			Snowberry.....47	Vigoro.....58
Grain Cleaner.....109	Leek.....14			Sod Lifters.....69	Vinca.....s36,p49
Grain Cradles.....106	Leg Bands.....128			Sod Spikers.....73	Viola.....s36,p49
Grain Drills.....98	Lepesedea.....53			Sodium Arsenite.....62	Virginia Creeper.....45
Grape-Vines.....51	Lethane.....440			Soil Disinfectants.....63	Vitamin B-1.....58
Grass Catchers.....76	Lettuce.....14			Soil Heating.....84	Wafers, Brooder.....128
Grass Hooks.....69,70	Lilac.....47			Soil Soakers.....72	Wagons.....109
Grass Seeders.....90,98	Lily.....s32,b39			Soil Sterilizer.....85	Wall Nails.....67
Grass Shears.....69	Lily-of-the-Valley.....49			Soil Testers.....59	Wallflower.....s36,p48
Gravely Tractors.....102	Lime.....57,61			Soilless Growth of Plants.....59	Water Bowls.....113
Grinders, Tool.....107	Lime Sowers.....96,107			Sorghum.....53	Water Glass.....135
Grinding Mills.....105,127	Lime-Sulphur.....61			Soy Bean Meal.....57	Water Lilies.....39
Grindstones.....107	Lime-Sulphur Hydrom-eter.....61			Soy Beans.....53	Water Systems.....118
Gumbo.....15	Linaria.....32			Spades.....68,70	Watering Pots.....67
Gymnocarpa.....28	Liners, Basket.....83			Sparrow Traps.....130	Watermelon.....15
Gypsophila.....s31,p48	Linum.....s32,p49			Speedwell.....s36,p49	Wedges.....90
Gypsum.....57	Liquid Smoke.....115			Spinach.....100	Weed Burner.....78
Hammer Mills.....105	Litter Carriers.....113			Spiraea.....47	Weed Killer.....62
Hardwood Ashes.....57	Lobelia.....32			Sprayers.....77-80,84	Weeders.....68,98,100
Harrows.....94-96	Loniceria.....45,46			Spreaders, Spray.....64,66	Weigela.....47
Harvesting Machinery.....97,105	Love-in-a-Mist.....33			Sprinklers, Lawn.....72,73	Whale-Oil Soap.....64
Hay Knives.....104	Love-in-a-Puff.....26			Squash.....21	Wheat.....53
Hay Loaders.....105	Lunaria.....31			Stakes.....67	Wheelbarrows.....70
Hay Tools.....106	Lupinus.....s32,p49			Stanchions.....113	Wheels, Wagon.....109
Hedge Plants.....45	Madeira Vine.....45			Stephanandra.....47	Wild Cucumber Vine.....36
Hedge Trimmers.....69	Magnesium Arsenate.....60			Stocks.....35	Windflower.....38
Helianthemum.....31	Mail Boxes.....130			Stock Remedies.....115	Window Frames.....122
Helianthus.....31	Mangel-Wurzel.....7			Straw Flower.....31	Winterberry.....47
Helichrysum.....31	Manure Spreader.....98			Strawberry Plants.....51	Wire Cloth.....87
Heliotrope.....31	Marigold.....32,33,4th Cov.			Strawberry Shrub.....46	Wire Stretchers.....88,89
Helibore.....60	Marjoram, Sweet.....13			Stump Puller.....118	Wisteria.....45
Herbs.....13	Marsh-Mallow.....s31,p48			Sub-Irrigator.....73	Wood Preserver.....136
Hesperis.....48	Marsh Plants.....39			Sudan Grass.....53	Worm Eradicator.....64
Heuchera.....48	Marvel of Peru.....30			Sulfocide.....66	Wormwood.....13
Hibiscus.....s31,p48	Matricaria.....33			Sulphate of Ammonia.....57	Yeast.....133,140
High Bush Cranberry.....47	Mattacks.....68,70			Sulphur.....61,66	Youth and Old Age.....37
Hoes.....68	Measures, Dry.....85			Summer Cypress.....32	Yucca.....49
Hog Feeders and Fountains.....112	Meat Pumps.....115				Zinnias.....37,3d and 4th Cov.
Hollyhock.....s31,p48					
Honesty.....31					

SECTIONAL INDEX

Page	Page
AGRICULTURAL IMPLEMENTS.....90-109	
BEE SUPPLIES.....116, 117	
BULBS AND ROOTS.....38-41	
DAIRY EQUIPMENT AND SUPPLIES.....110-115	
DOG AND PET FOODS AND SUPPLIES.....137-142	
FENCING.....86-89	
FERTILIZERS.....56-59	
HOTBED SUPPLIES.....84,85	
INSECTICIDES.....60-66	
LAWN AND GARDEN TOOLS.....67-83	
NURSERY STOCK.....42-51	
POULTRY EQUIPMENT AND SUPPLIES.....119-136	
SEEDS, FIELD.....52-55	
SEEDS, FLOWER.....24-37	
SEEDS, LAWN GRASS.....1-3	
SEEDS, VEGETABLE.....4-23	

Musk Plant.....33	Poultry Netting.....86
Muskmelon.....15	Poultry Punch.....130
Mustard.....15	Poultry Remedies.....133-136
Myosotis.....s33,p49	Poultry Waterers.....123-126
Myrtle.....49	Pratt's Remedies.....115,135
Nails.....67,88	Primrose.....s34,p49
Napthalene Flakes.....63	Primula.....s34,p49
Nasturtiums.....33	Privet.....45
Nect Yokes.....104	Pruning Tools.....81,82
Nest Eggs.....128	Pulleys.....106
Nests.....123,126	Pulverizers.....96
Nico-Fume.....61	Pulvex.....142
Nicotiana.....33	Pumpkin.....17
Nicotine Pyrox.....65	Pumpkins.....118
Nigella.....33	Pussy Willow.....47
Nitrate of Soda.....57	Pyrethrum.....s34,p49
Nozzles.....72,73	Pyrox.....60,65
Nu-Green.....63	Rabbit Feeders.....126
Oats.....53	Radish.....19
Okra.....15	Raffia.....67
Onion Seed.....16	Ragged Sailor.....28
Onion Sets.....16	Rakes, Garden and Lawn.....69
Orchard Grass.....53	Rakes, Hay.....105
Ornamental Grass.....31	Ranunculus.....38
Oxalis.....38	Rape, Dwarf Essex.....53
Oyster Plant.....20	Raspberries.....51
Paint.....64,83,85	Red Exterminators.....62,130
Painted Tongue.....35	Red Arrow.....65
Pansies.....34	Red-Hot Poker.....49
Papaver.....s35,p49	Red Top Seed.....3
Paradichlorobenzene.....64	Reseda.....33
Para-Scalecide.....64	Respirators.....73
Parchment Paper.....114	Rhamnus.....47
Paris Green.....60	Rhodanth.....35
Parsley.....16	Rhodotypos.....47
Parsnip.....16	Rhubarb.....20
Pasture Mixture.....52	Ricinus.....28
Peas.....18	Roach Killer.....62
Peat Moss.....59	Rock-Cress.....s25,p48
Peonies.....41	Rock-Garden Plants.....48,49
Pepper.....17	Rock-Garden Seed Mixture.....37
Peppermint.....13	Rocket.....31
Perennial Plants.....48,49	Rollers, Land.....96
Periwinkle, Madagascarc.....36	Rollers, Lawn.....71
Petunias.....34,3d Cov.	
Philadelphus.....47	
Plox.....s35,p49	

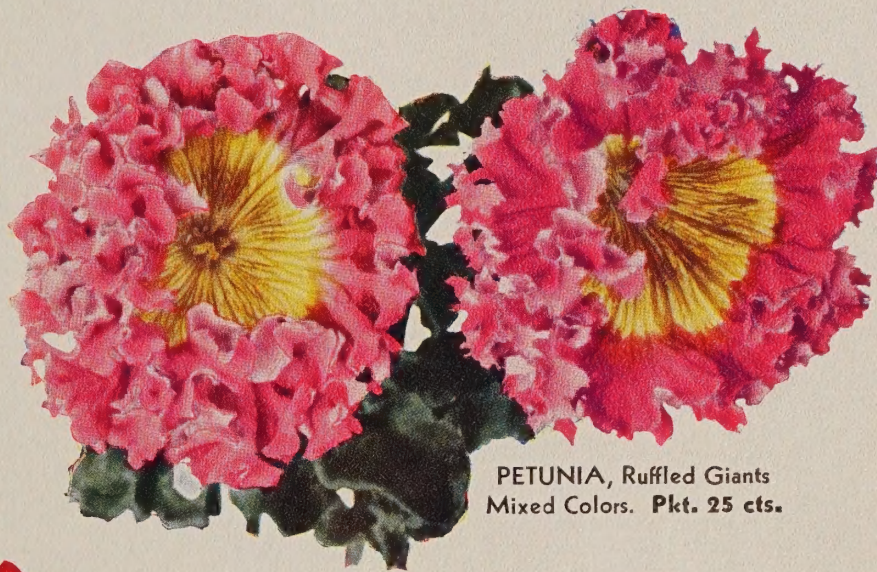
Roof Cement.....83	Summer Hyacinth.....38
Roof Saddles.....127	Sun Rose.....31
Roofing.....83	Superphosphate.....31
Root Cutters.....108,127	Swan River Everlasting.....35
Root Washers.....85	Swede Turnip.....23
Rootone.....65	Sweepers, Lawn.....71
Rope.....106	Sweet Marjoram.....13
Rose of Sharon.....46	Sweet Pea.....32,36
Roses.....42-44	Sweet Shrub.....46
Rotenone Dust.....60,65	Sweet Sultan.....28
Rough-stalked Meadow Grass.....3	Sweet William.....s36,p48
Rubber Bands.....85	Swiss Chard.....7
Rue.....13	Symphoricarpos.....46,47
Rutabaga.....23	Syringa.....47
Rye.....53	Tages.....32,33
Rye Grass.....3,53	Tamarix.....47
Saddle Soap.....115	Tansy.....13
Salfron.....13	Tarragon.....13
Sage.....13,35	Teat Instruments.....114
Sal-Vet.....115	Tergen.....63
Salpiglossis.....35	Thermometers.....85,114,115,128
Salsify.....20	Thrift.....s25,p48
Salt.....115,136	Thunbergia.....36
Salvia.....85	Thyme.....13
Satin Flower.....30	Tickseed.....s27,p48
Sausage Seasoning.....115	Tigrida.....38
Savory, Summer.....13	Time Switch.....129
Saws.....82,90,109	Timothy Seed.....3,52
Scabiosa.....s35,p49	Tithonia.....36
Scalecide.....66	Toadflax.....32
Scales.....114,118,130	Tobacco.....21
Scarlet Trumpet Vine.....45	Tobacco Dust.....64,136
Schizanthus.....35	Tobacco Stems.....64
Scotch Soot.....57	Tobacco, Sweet-scented.....33
Scrapers, Drag.....94	Tomatoes.....22,23
Scrapers, Poultry House.....128	Tractors.....91,102,103
Scythe Stones.....107	Transplantone.....58
Scythes.....70	Tree Bands.....64
Sea Pink.....25	Tree Paint.....64
Sedum.....49	Tree Scraper.....82
Seed Cleaner.....109	Tree Surgery Tools.....81
Seed Flats.....84	Tree Tanglefoot.....64
Seeders.....90,100	Tree Wrap.....82
Selocine.....61	Trees, Fruit.....50
Semecan.....63	Trees, Shade.....47
Shearing Machines.....112	Trellis Wire.....87
Shears, Flower.....67	Tri-Gen.....61
Shears, Grass.....69	Tritoma.....49
Shears, Hedge.....69	Tropaeolum.....27
Shears, Pruning.....81,82	Trowels, Garden.....68
Sheep Manure.....59	Trumpet Creeper.....45
Sheep Shears.....69,112	Tuberose.....38
Shovel Plows.....101	Tufted Pansies.....49
Shovels.....70	Tulip Poppy.....31
Shrubs, Flowering.....46,47	Turnip.....23
Sieves.....70	Turnip-rooted Celery.....9
Silver Lace Vine.....45	Twist Ems.....67
Silverberry.....46	Vegetable Tye.....85
Singletrees.....104	Vegetable Washers.....85
Smoked Salt.....115	Ventilators.....122
Snapdragon.....25,3d Cov.	Verberna.....36
Snaths.....70	Vermol.....64
Snow Fence.....87	Veronica.....s36,p49
Snow Plows.....102	Vetch.....53
Snow-in-Summer.....s28,p48	Viburnum.....47
Snow-on-the-Mountain.....30	Vigoro.....58
Snowball.....47	Vinca.....s36,p49
Snowberry.....47	Viola.....s36,p49
Sod Lifters.....69	Virginia Creeper.....45
Sod Spikers.....73	Vitamin B-1.....58
Sodium Arsenite.....62	Wafers, Brooder.....128
Soil Disinfectants.....63	Wagons.....109
Soil Heating.....84	Wall Nails.....67
Soil Soakers.....72	Wallflower.....s36,p48
Soil Sterilizer.....85	Water Bowls.....113
Soil Testers.....59	Water Glass.....135
Soilless Growth of Plants.....59	Water Lilies.....39
Sorghum.....53	Water Systems.....118
Soy Bean Meal.....57	Watering Pots.....67
Soy Beans.....53	Watermelon.....15
Spades.....68,70	Wedges.....90
Sparrow Traps.....130	Weed Burner.....78
Speedwell.....s36,p49	Weed Killer.....62
Spinach.....100	Weeders.....68,98,100
Spiraea.....47	Weigela.....47
Sprayers.....77-80,84	Whale-Oil Soap.....64
Spreaders, Spray.....64,66	Wheat.....53
Sprinklers, Lawn.....72,73	Wheelbarrows.....70
Sprinkling Cans.....67	Wheels, Wagon.....109
Squash.....21	Wild Cucumber Vine.....36
Stakes.....67	Windflower.....38
Stanchions.....113	Window Frames.....122
Stephanandra.....47	Winterberry.....47
Stocks.....35	Wire Cloth.....87
Stock Remedies.....115	Wire Stretchers.....88,89
Straw Flower.....31	Wisteria.....45
Strawberry Plants.....51	Wood Preserver.....136
Strawberry Shrub.....46	Worm Eradicator.....64
Stump Puller.....118	Wormwood.....13
Sub-Irrigator.....73	Yeast.....133,140
Sudan Grass.....53	Youth and Old Age.....37
Sulfocide.....66	Yucca.....49
Sulphate of Ammonia.....57	Zinnias.....37,3d and 4th Cov.
Sulphur.....61,66	
Summer Cypress.....32	



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